Seq ID 1

# SEQUENCE LISTING

ped ID I			•			
atggttaatc	ctattggtcc	aggtcctata	gacgaaacag	aacgcacacc	tcccgcagat	60
ctttctgctc	aaggattgga	ggcgagtgca	gcaaataaga	gtgcggaagc	tcaaagaata	120
gcaggtgcgg	aagctaagcc	taaagaatct	aagaccgatt	ctgtagageg	atggagcatc	180
ttgcgttctg	cagtgaatgc	tctcatgagt	ctggcagata	agctgggtat	tgcttctagt	240
aacagctcgt	cttctactag	cagatctgca	gacgtggact	caacgacage	gaccgcacct	300
acgcctcctc	cacccacgtt	tgatgattat	aagactcaag	cgcaaacagc	ttacgatact	360
atctttacct	caacatcact	agctgacata	caggctgctt	tggtgagcct	ccaggatgct	420
gtcactaata	taaaggatac	agcggctact	gatgaggaaa	ccgcaatcgc	tacagaatag	480
gaaactaaga	atgccgatgc	agttaaagtt	ggcgcgcaaa	ttacagaatt	agcgaaatat	540
gcttcggata	accaagcgat	tcttgactct	ttaggtaaac	tgacttcctt	cgacctctta	600
caggctgctc	ttctccaatc	tgtagcaaac	aataacaaag	caqctqaqct	tcttaaagag	660
atgcaagata	acccagtagt	cccagggaaa	acgcctgcaa	ttgctcaatc	tttagttgat	720
cagacagatg	ctacagcgac	acagatagag	aaagatggaa	atgcgattag	ggatgcatat	780
tttgcaggac	agaacgctag	tggagctgta	gaaaatgcta	aatctaataa	cagtataagc	840
aacatagatt	cagctaaagc	agcaatcgct	actgctaaga	cacaaatagc	tgaageteag	900
aaaaagttcc	ccgactctcc	aattcttcaa	gaagcggaac	aaatqqtaat	acaggetgag	960
aaagatetta	aaaatatcaa	acctgcagat	ggttctgatg	ttccaaatcc	aggaactaca	1020
gttggaggct	ccaagcaaca	aggaagtagt	attggtagta	ttcatatttc	catoctotta	1080
gatgatgctg	aaaatgagac	cgcttccatt	ttgatgtctg	ggtttcgtca	gatgattcac	1140
atgttcaata	cggaaaatcc	tgattctcaa	gctgcccaac	aggagetege	agcacaagct	1200
agagcagcga	aaqccqctqq	agatgacagt	gctgctgcag	cactaacaga	tgctcagaaa	1260
gctttagaag	cqqctctaqq	taaagctggg	caacaacagg	gcatactcaa	tactttagga	1320
cagategett	ctactactat	tataaacaca	ggagttcctc	ccactacaac	aagttctata	1380
gggtcatctg	taaaacagct	ttacaagacc	tcaaaatcta	caggttctga	ttataaaaca	1440
cagatatcag	caggttatga	tocttacaaa	tccatcaatg	atgcctatgg	tagggcacga	1500
aatqatqcqa	ctcqtqatqt	gataaacaat	gtaagtaccc	cogeteteac	accatecatt	1560
cctagagcac	gaacagaagc	tcgaggacca	gaaaaaacag	atcaagccct	cactacacta	1620
atttctqqca	atagcagaac	tettagagat	gtctatagtc	aagtttcggc	actacaatct	1680
gtaatgcaga	tcatccagtc	gaatcctcaa	gcgaataatg	aggagatcag	acaaaaactt	1740
acateggeag	tgacaaagcc	tccacagttt	ggctatcctt	atgtgcaact	ttctaatgac	1800
tctacacaga	agttcatage	taaattagaa	agtttgtttg	ctgaaggatc	taggacagac	1860
gctgaaataa	aagcactttc	ctttgaaacg	aactccttgt	ttattcacca	aatactaata	1920
	ctctatattc			oudoudayou	9909009900	1956
		-55				1330
Seq ID 2			•			
atgaaaaaac	tettaaagte	ggcgttatta	tccgccgcat	ttactaattc	tateaactee	60
ttacaagcct	tgcctgtagg	qaacccttct	gatccaagct	tattaattga	tggtacaata	120
tgggaaggtg	ctgcaggaga	tecttqcqat	ccttgcgcta	cttagtacga	cgctattagc	180
ttacgtgctg	gattttacqq	agactatgtt	ttcgaccgta	tettaaaagt	agatgcacct	240
aaaacatttt	ctatgggage	caaqcctact	ggatccgctg	ctgcaaacta	tactactacc	300
gtagatagac	ctaacccggc	ctacaataag	catttacacg	atgragagtg	attractast	360
gcaggcttca	ttqccttaaa	catttgggat	cgctttgatg	ttttctctatac	tttaggaggt	420
tctaatggtt	acattagagg	aaactctaca	gcgttcaatc	tcattaattt	atteggagtt	480
aaaggtacta	ctqtaaatqc	aaatgaacta	ccaaacgttt	ctttaagtaa	cagaattatt	540
gaactttaca	cagacacctc	tttctcttaa	agcgtaggcg	ctcatagaaa	cttatoocaa	600
tgcggttgtg	caactttggg	agctgaattc	caatatgcac	actccaaacc	taaanttnaa	660
gaacttaatg	tgatctgtaa	cgtatcgcaa	ttctctgtaa	ageccaaacc	gagatataa	720
ggcattactt	teceettace	aacagagggt	ggcgtagcaa	canatantan	aggeraratat	720 780
gcgaccatca	attatcatca	atoggaegee	ggagcctctc	tatettage	aacaaagtet	840
ttagtgccat	acattggagt	acaatcotct	cgagcaactt	thattata	topastaga	900
attoctcage	Caaaactacc	tacacctatt	ttaaacttaa	ataattaasa	caacateege	
ctaggaaatg	CCacaccat+	atchectect	gattcgttct	dagaattaat	CCCCCCCCCC	960
tectaticada	tcaacaantt	taaatotaoo	yactogetot	cayacttcat	gcaaattgtt	1020
ttagttgatg	Ctoataaata	ataacccaya	aaagcttgtg	gayctactgt	aygagctact	1080
qctcacatat	ctggtcagtt	garattata	gcagaagctc	yılıaattaa	cyagagaget	11,40
Jacgcat	ggccagct	cayactetaa				1170
Seq ID 3						
	atccatcacc	aaattccaac	aaccatotot	agattage-	200 act - 25	
cagcatccco	atqttaaaga	at coordat+	aacgatctct	agattaggg	tastasses	60
actgcctcag	daddacacaa	accoggggcc	acaagtgcta	accuayyaag	catagagtg	120
3	J-JJucycca	ayyyıtatta	gcacgaatca	aagaagcagt	aaccgggttt	180

```
tttagtcgga tgagcttctt cagatcggga gctccaagag gtagccaaca accctctgct
                                                                      240
ccatctgcag atactgtacg tagcccgttg ccgggagggg atgctcgcgc taccgaggga
                                                                      300
gctggtagga acttaattaa aaaagggtac caaccaggga tgaaagtcac tatcccacag
gttcctggag gaggggccca acgttcatca ggtagcacga cactaaagcc tacgcgtccg
                                                                      420
gcaccccac ctcctaaaac gggtggaact aatgcaaaac gtccggcaac gcacgggaag
                                                                      480
ggtccagcac cccagcctcc taaaacaggt gggaccaatg ctaagcgcgc agcaacgcat
                                                                      540
gggaaaggtc cagcacctca acctcctaag ggcattttga aacagcctgg gcagtctggg
                                                                      600
acttcaggaa agaagcgtgt cagctggtct gacgaagatt aa
                                                                      642
Seq ID 4
atgggaatca atcetteggg taatagatca ccagatgatg tatgggttag aggageteaa
                                                                       60
ggcgataget ccagtaccca aggtacagga gctacaaact caaatettgg tgctcacaac
                                                                     120
gtaactacat caacctcaca gccgcaagtt gcttctaaag caaagcagtt atggcagacg
                                                                     180
gtaagggagt tetttttagg gaagaaatca eeegattett eteagggtge ttegggaeet
                                                                     240
gcaatgcaaa gtccttcagg acctacaata cggcctacgc gtccggcacc tccacctcct
                                                                      300
acaacgggtg gggctaatgc gaaacgtccc gcaacgcatg ggaaaggtcg agcacctcaa
                                                                     360
cctcctacgg cggggtcttc ttcaggatca gagcaaccta ctgccatgag ttctgaagtc
                                                                     420
gctaaacttg tgagtgaatt aaaagatgca gtccatagtc atgcggagtc tcaaaaagta
                                                                     480
cttaaaaagg tatctcaaga gctacaaaca aagtggacgg attgggaaaa taataggggt
                                                                     540
ccagactate ttttgcatgg ttatcgtgtc attgctcgag ctttgcagca aacatacaca
                                                                     600
gaacaatcta tgcttatcga agggacttca tctacaggac cagttccgca agcagtgact
                                                                     660
gtagctaagg atgctgtaac tcagacagtt agaggcgcaa ttaagaattt agaaaatcct
                                                                      720
aagccaggta atgatcctga tggtgtactc atgcaagtgg ttataagctt aggtatcgaa
                                                                     780
ggacctacat tagacccagg agaatctatc caaaactttt tagaaactag ggtttcggat
                                                                     840
ttcggtggag atgatagcga catagattat acaagtgata tagctcgatt agggtcagct
                                                                     900
ttagatcggg tacgcgaaaa tcatcctaat gagatgccta gaatatggat agcattagca
                                                                     960
cgagaactcg gtgcggctgt acactetcat gctacttccg tccgaatcgc aaatgcagga
                                                                     1020
aagaatcaca ctcgtgacgt tgtgcgaatg gccaatgagt cgagtagact acttcaaggt
                                                                     1080
atgaaagtgt tatcggtcgg agcttgggcg aatacaatga cagttttaat cggggatctt
                                                                     1140
tttgaataa
                                                                     1149
Seq ID 5
atgaaaacgt tgtggcactt cgtatccaaa gcctttttat cgatagtagg actgtgttgc
                                                                      60
ggagttgttc ttgcttttgt cgttatattc gcactcatag cttcctcttt aggaaatggg
                                                                     120
gatgctacct tcgttagctt gcctgacgcc caaggagaag taaaagatct agggaaaaca
                                                                     180
gcccccatta ttgctgttat cgaaatgaaa gatgtaattg cttcttcaaa aaatacggcc
                                                                     240
aaaacgattc agaatatttt agaaggattt gagaaagctc ctcttaaaga tcgtgtcaaa
                                                                     300
ggtattgtca ttgatatgga ttgcccagga ggcgaggtct ttgaaataga tagaatttac
                                                                     360
tctatgcttc gcttttggaa agaacgtaag ggattcccta tttatattta tgtgaatggt
                                                                     420
etttgtgett egggaggeta ttatgtatee tgegetgeaa etaaaattta tgecacetee
                                                                     480
teetetetta teggttetat eggagtgegt tetggaceat tetteaatgt aaaagaaggt
                                                                     540
ttaaatcgct acggagttga aagtgatctg ctgacagctg gaaaagataa ggctccaatg
                                                                     600
aatcettata caccgtggac tteteatgat agagaagaac ggcaagegac tettgatttt
                                                                     660
ctctacggac aatttgttga tatagttaca caaaaccgtc ctctgcttac taaagagaag
                                                                      720
ttagttcaca ctctcggagc acgtattttt tctccagaga aggccaaaca agaaggctat
                                                                     780
                                                                     840 -
attgatgttg taggcgcaac taaagaacaa gtccttcaag acatagttgc tgtttgtaag
attgaagata actatagagt gattggctct ggtggtgatg gttggtggaa gcgggtggct
                                                                     900
tragetgrag cttraagtre attagttact ggratgatta aacacgatat tetgeettta
                                                                     960
tcccatgacg ctgcatacat acctccctac ttggcactgt ag
                                                                     1002
Seq ID 6
atgagacete ategtaaaca egtateatet aaaagettag etttaaagea atetgeatea
                                                                      60
actcatgtag agatcacaac aaaagccttt cgtctctcta tgcctctaaa acagctgatc
                                                                     120
ctagagaaaa gcgaccacct cccccctatg gaaacaatcc gtgtggtgct aacctctcat
                                                                     180
aaagataagc taggcaccga ggtgcatgtt gtagcttctc atggcaaaga aatccttcaa
                                                                     240
actaaggttc ataacgcaaa cccatacact gcagtgatca atgcttttaa gaaaatccgc
                                                                     300
accatggcaa ataagcactc caataaacgt aaagacagga caaaacatga tctaggtctt
                                                                     360
                                                                     420
gcagcaaaag aagaacgtat cgcaatacag gaagaacaag aagatcgcct tagcaacgag
tggcttcctg tcgaaggcct cgatgcctgg gattctctaa aaactcttgg gtatgttccc
                                                                     480
gcatcagcga aaaagaagat ctccaagaaa aagatgagca ttcgtatgct atctcaagac
                                                                     540
gaggetatec gecagetaga gtetgeegea gaaaaettee tgatettett gaacgageaa
                                                                     600
gagcataaaa tccaatgcat ttataaaaaa catgacggca actatgtcct tattgaacct
                                                                     660
tccctcaagc caggattctg catctga
                                                                     687
```

```
Seg ID 7
atggcagete etateaacca accategaca acgaeteaga taacteaaac tgggcagaet
                                                                       60
acaacgacaa caacggtagg atcattagga gagcattctg ttacaacaac aggatctggg
                                                                      120
gcagcagcac aaacatctca gacagtaact ctaattgcag atcacgaaat gcaagaaatt
                                                                      180
gcaagtcaag atggatccgc ggtaagcttt tetgetgagc actettttte taccetecet
                                                                      240
ccagagactg gaagtgttgg agctacagca caatccgctc aatctgcggg gctattttca
                                                                      300
ttatcaggtc gtacacaaag aagagattcg gagatttctt cctcttctga cggcagttcg
                                                                      360
atatctagaa ctagctcaaa cgcatcttct ggagaaacaa gcagagctga aagtagtcct
                                                                      420
gatctaggcg acttggatag cttatcagga agcgagcgcg ctgaaggagc cgaaggacct
                                                                      480
gaaggacctg gaggcttacc tgaaagtacg attccacatt atgatcctac cgataaagcg
                                                                      540
tctattttga acttcttgaa aaatcctgca gttcagcaga aaatgcagac caaaggaggc
                                                                      600
cactttgttt atgtagatga agccagaagt agtttcattt ttgtccgcaa tggtgactgg
                                                                      660
tcaactgctg agtctataaa agtttctaat gcaaaaacca aagaaaatat tactaagcct
                                                                      720
gcggacttag aaatgtgcat cgctaaattc tgtgtgggat atgaaaccat ccactcggat
                                                                      780
tggacgggac gcgtaaaacc tacaatggaa gagcgctcgg gagccacagg aaattacaat
                                                                      840
catctgatgc tcagcatgaa atttaaaact gctgtagtct acggtccttg gaatgctaaa
                                                                      900
gaatctagta gtggatatac accetetgea tggegtegtg gagcaaaagt agaaacaggt
                                                                      960
ccgatttggg atgatgttgg gggcttgaaa ggcattaact ggaaaacgac cccagctcca
                                                                     1020
gactteteet ttataaatga aacteeaggt ggaggggete actegaegte teatacaggt
                                                                     1080
cctggcactc cagtaggagc tactgtggtt cctaatgtga atgtcaactt gggaggcatt
                                                                     1140
aaggttgatc tgggtggcat caatttaggt ggaattacaa cgaatgtcac tacagaagaa
                                                                     1200
ggtggtggaa ccaacataac atctacgaaa tccacatcta ctgatgataa agtctcaata
                                                                     1260
acatetacag gateteaaag tacgategaa gaagacaeta tacaatttga egateetggt
                                                                     1320
cagggagagg atgataacgc aattcccggc acaaacacac ctcctcctcc aggtcctccg
                                                                     1380
ccaaatctaa gcagttctcg cttgctgact atttcgaatg cgtccttgaa ccaagtctta
                                                                     1440
cagaatgtcc gacaacatct gaatacggct tatgattcga atggtaattc agtctcagat
                                                                     1500
ctcaatcagg atttaggcca ggtagtaaaa aacagtgaaa acggagtgaa cttccctact
                                                                     1560
gtgattette etaaaactae tggegataea gateeateeg gteaageaac eggaggagte
                                                                     1620
actgaaggcg gcggtcatat ccgtaatatt atccaaagga atacacaatc tacggggcaa
agtgaaggag caacacctac acctcaacct actatagcaa agatagtgac ttccctgaga
                                                                     1740
aaagcaaatg taagttccag ctctgtgcta ccacaaccac aagtagctac gacgatcacc
                                                                     1800
cctcaagcga gaacggccag tacatctaca acgagcatag gaaccgggac agaaagcaca
                                                                     1860
tctacaacaa gtacgggaac gggaacagga agtgtctcca cacaaagtac tggcgtaggg
                                                                     1920
acaccaacta cgacgactcg atctacagga acttcggcga caaccacaac atcatcagct
                                                                    1980
tegacacaaa caceecaage geetetteee tetgggacca ggeatgttge tacaatetee
                                                                     2040
ttagtgcgta atgctgcagg aaggtctatt gtattacaac aagggggtcg atctcaaagc
                                                                    2100
ttcccgatcc ctccctcagg gactggaaca_cagaatatgg_gggcacaatt_gtgggctgca
                                                                    2160
gcaagtcaag ttgcttccac tttaggccag gtcgtgaatc aagcagctac agcaggttct
                                                                    2220
caaccctcct ctcgtagatc ttccccaaca agtccacgaa gaaaatag
                                                                     2268
Seq ID 8
atgaaaacgt ctcaactctt ttataagact tcaaaaaatg caaataaaag cgctgctgtg
                                                                      60
ctctcaaacg agctcctaga aaaggcagga tacctattta aagtaagtaa aggagtctat
                                                                      120
acctatacac ccctgttatg gcgcgtggtc tccaagatga tgaacatcat tagagaggaa
                                                                      180
cttaatgcga ttggaggtca agaacttcta ctcccacttc tccacaatgc tgaactttgg
                                                                      240
caacatacag ggagatggga ggcatttact tcggaaggac tgctctacac tctcaaagac
                                                                      300
cgcgaaggaa aatctcattg cctagctcct acacatgaag aggtcatctg ctcttttgtt
                                                                      360
gcacaatgge tetecteaaa aagacaaett cetetecace tttaccaaat tgctacaaaa
                                                                      420
ttccgagacg agattcgccc tcgattcggt ctcattcgct ctcgagagct ccttatggaa
                                                                      480
gacagetata cetteteaga etetecegaa caaatgaacg agcaatatga aaaacteege
                                                                      540
tetgegtata gtaagatett tgategtete ggtettgeet atgteategt tacagetgat
                                                                      600
ggagggaaaa tcggcaaagg aaagtctgag gaatttcagg tcctttgctc tctaggcgag
                                                                      660
gacacgatet gegteagegg tteetatgga getaatattg aggetgetgt etecatteet
                                                                      720
ccacagcatg cctacgatcg cgagtttctt cccgtcgaag aagtggccac ccctgggatt
                                                                      780
acaacaatag aagctctagc aaacttcttc tctatcccct tacataaaat tttaaaaacc
                                                                      840
cttgtcgtaa aactctccta ctcaaatgaa gaaaaattca ttgccattgg aatgagaga
                                                                      900
gatcggcaag tcaacctagt gaaggtcgct tccaaactga atgccgatga tattgctcta
                                                                     960
gettetgatg aagaaatega aegegtteta ggeacagaaa aaggatteat eggteeceta
                                                                    1020
aactgtccca tagacttttt cgcagacgaa acaacgtccc caatgacgaa ctttgtttgt
                                                                    1080
gegggcaatg ctaaagataa geactaegta aatgtaaact gggategega cetecteece
                                                                    1140
ccccaatacg gtgactttct actcgctgaa gagggagaca catgtcctga aaatcctggc
                                                                    1200
cateettace geatttatea aggeatagaa gttgeteata tttteaatet egggacaege
                                                                    1260
tataccgata gttttgaggt aaacttccaa gatgaacacg ggcaaaccca gcagtgctgg
                                                                    1320
atggggacct acggcattgg agtcggaaga acattagccg cttgtgtaga acagcttgcc
                                                                    1380
```

```
gacgaccgtg gtattgtttg gccaaaagca ctcgctccct tctctatcac tatcgccttt
                                                                     1440
aacggaggag acactgtatc tcaagagctt gcggaaacta tttatcatga gctacaaagt
                                                                     1500
caaggetatg ageceettet tgatgatega gatgaaagae teggatttaa aettaaagae
                                                                     1560
agtgacctta tcggcattcc ttataagctt attttaggaa agtcctacca atcttcggga
                                                                     1620
atattegaaa ttgaateeeg atetggagaa aagtataeag teteeeegga ggeetteeet
                                                                     1680
acttggtgtc agaatcactt agcctag
                                                                     1707
Seq ID 9
atggcatcag gaatcggagg atctagtgga ttaggaaaga ttccacctaa agataatggg
                                                                       60
gatagaagte gategeeete teetaaggga gaacttggea gecacgagat tteeetgeet
                                                                      120
cctcaagaac atggagagga aggagcttca ggatcttcgc atatacatag cagttcctct
                                                                      180
tttctaccag aagatcagga gtctcagagc tcttcttcgg cagcttctag cccgggattt
                                                                      240
ttttctcgcg tacgttctgg ggtagacagg gccttaaaat catttggcaa cttttttcc
                                                                      300
gcagagtcta cgagtcaagc gcgtgaaacg cgacaagctt ttgttagatt atcaaaaacc
                                                                      360
atcaccgcgg atgagagacg ggatgtcgat tcatcaagtg ctgctqctac agaaqcccqa
                                                                      420
gtggcagagg acgcgagtgt ttcaggcgaa aatccttctc agggggttcc agaaacctct
                                                                      480
tetggaccag aaceteageg tttattttet etteetteag taaaaaaaca gageggtttg
                                                                      540
ggtcggttgg tacagacagt tcgcgatcgc atagtacttc ctagtggggc tccacctaca
                                                                      600
gacagcgagc ctttaagtct ctacgagcta aacctccgtt tgagtagttt acgtcaggag
                                                                      660
ctctctgaca tacaaagtaa tgatcagttg actccagagg aaaaagcaga agccacagtt
                                                                      720
accatacaac agctgatcca aattacagaa ttccaatgcg gctatatgga ggcaacacaa
                                                                      780
tetteggtat etetageaga agetegtttt aagggggtag aaactagtga tgagateaat
                                                                      840
tecetetgtt cagaactgac agatectgag etteaagaac teatgagtga tggagactet
                                                                      900
cttcaaaacc tattagatga gactgccgac gatttagaag ctgctttgtc ccatgctcga
                                                                      960
ttgagttttt ctttagacga taatccaact ccgatagaca ataatccaac tctgatttct
                                                                     1020
caagaagagc ctatttatga ggaaatcgga ggagctgcag atcctcaaag aactcgggaa
                                                                     1080
aactggtcta caagattatg gaatcagatt cgcgaggctc tggtttctct tttaqgaatg
                                                                     1140
attttaagca ttctagggtc catcttgcac aggttgcgta ttgctcgtca tgcagctgct
                                                                     1200
gaagcagtgg gtcgttgttg cacgtgccga ggagaagagt gtacttcttc tgaagaggac
                                                                    1260
togatgtogg tggggtotco ttcagaaatt gatgaaactg aaagaacggg ctctccgcat
                                                                     1320
gacgttccac gcagaaatgg aagtccacgt gaagattctc cattgatgaa tgccttagta
                                                                     1380
ggatgggcac ataagcacgg tgctaaaacc aaggagagtt cagaatcaag taccccggaa
                                                                    1440
atttcgattt ctgctcccat agtgagaggt tggagtcaag acagttccgt cagttttatt
                                                                    1500
gttatggaag atgatcatat tttctatgat gttcctcgta gaaaagatgg aatctatgac
                                                                     1560
gttcctagtt cccctagatg gagtcctgcg cgagagttgg aagaggatgt ttttggagat
                                                                    1620
tatgaagttc ctataacctc tgctgaacca tctaaagaca agaacatcta catgacacct
                                                                    1680
agattagcaa ctcctgctat ctatgatctt ccttcacgtc caggatcgtc tggaagctca
                                                                    1740
cgttctccgt cttcagatcg cgtacgaagc agctcaccaa atagacgggg tgtgcctctt
                                                                    1800
cctccagttc cttcacctgc tatgagtgag gaggggagca tttatgagga tatgagcggt
                                                                    1860
getteaggtg caggtgaaag tgattatgaa gatatgagee gtteeceete teetagagge
                                                                    1920
gacttggatg aacccatata tgctaatact cctgaagata atccatttac tcagagaaat
                                                                    1980
atagatagaa ttttacagga gaggtcaggc ggtgcttccg cttctcctgt agagcctatt
                                                                    2040
tatgatgaga teccatggat teatggeagg ecceetgeta caetteeaag accegagaat
                                                                    2100
acattgacta_atgtttcgct_tagagtgagc_ccagggtttg_gaccagaagt_aagagccgct----
                                                                    2160-
ttgcttagcg agagcgtgag tgctgttatg gtcgaagcag agagtattgt tcctccaaca
                                                                    2220
gagccggggg acggagaatc agaatatcta gagcccttag ggggacttgt agctacaacg
                                                                    2280
aaaatcttac tacaaaaagg atggcctcgt ggagagtcga atgcttag
                                                                    2328
Seq ID 10
atgogotttt titgottogg aatgitgott oottitactt tigtatiggo taatgaaggi
                                                                       60
ctccaacttc ctttggagac ctatattaca ttaagtcctg aatatcaagc agccctcaa
                                                                     120
gtagggttta ctcataacca aaatcaagat ctcgcaattg tcgggaatca caatgatttc
                                                                     180
atcttggact ataagtacta tcggtcgaat ggaggtgctc ttacctgtaa gaatcttctg
                                                                     240
atctctgaaa atatagggaa tgtcttcttt gagaagaatg tctgtcccaa ttctggcggg
                                                                     300
gcaatttatg ctgctcaaaa ttgcacgatc tccaagaatc agaactatgc atttactaca
                                                                     360
aacttggtct ctgacaatcc tacagccact gcgggatcac tattgggtgg agctctcttt
                                                                     420
gccataaatt gctctattac taataaccta ggacagggaa ctttcgttga caatctcgct
                                                                     480
ttaaataagg ggggtgccct ctatactgag acgaacttat ctattaaaga caataaaggc
                                                                     540
ccgatcataa tcaagcagaa tcgggcacta aattcggaca gtttaggagg agggatttat
                                                                     600
agtgggaact ctctaaatat agagggaaat tctggagcta tacagatcac aagcaactct
                                                                     660
traggatetg ggggaggeat attttetace caaacactea egateteete gaataaaaaa
                                                                     720
ctcatagaaa tcagtgaaaa ttccgcgttc gcaaataact atggatcgaa cttcaatcca
                                                                     780
ggaggaggag gtcttactac caccttttgc acgatattga acaaccgaga aggggtactc
                                                                     840
tttaacaata accaaagcca gagcaacggt ggagccattc atgcgaaatc tatcattatc
                                                                     900
```

aaagaaaatg	gtcctgtata	ctttttaaat	aacactgcaa	ctcggggagg	ggctctcctc	960
aacttatcag	caggttctgg	aaacggaagc	ttcatcttat	ctgcagataa	tggagatatt	1020
	ataatacggc					1080
	ctaatatgaa					1140
	tagaacatga					1200
	gtacagtttt					1260
atgaatttct	tttcctattt	aaggaacact	tcggaactac	gtcaaggagt	ccttgctgtt	1320
	cggggctggc					1380
	cggtgatcac					1440
	gtactataac					1500
	aggetecaaa					1560
	acccgacaat					1620
	acgatagtct					1680
	tegetgeaca					1740
	actatgggta					1800
atcacgaacc	ctacatctct	actaggcgcg	aatacaaaac	acaagctgct	ctatgcaaac	1860
	taggctaccg					1920
	cggcatatac					1980
gagaagggtc	atgcagcttc	cctacaaggc	attggtcttc	tggttcatca	aaaagacaaa	2040
aacggtttta	agggatttcg	tagtcatatg	acaggttata	gtgctaccac	cgaagcaacc	2100
tcttctcaaa	gtccgaattt	ctctttagga	tttgctcagt	tcttctccaa	agctaaagaa	2160
	aaaatagcac					2220
actctcttca	aagagtggat	acgtctatct	gtgtctcttg	cttatatgtt	tacctcggaa	2280
catacccata	caatgtatca	gggtctcctg	gaagggaact	ctcagggatc	tttccacaac	2340
cataccttag	caggggctct	ctcctgtgtt	ttcttacctc	aacctcacgg	cgagtccctg	2400
cagatctatc	cctttattac	tgccttagcc	atccgaggaa	atcttgctgc	gtttcaagaa	2460
tctggagacc	atgctcggga	attttcccta	caccgccccc	taacggacgt	ctccctccct	2520
gtaggaatcc	gcgcttcttg	gaagaaccac	caccgagttc	ccctagtctg	gctcacagaa	2580
	gctctactct					2640
agccaaggta	cgtggacgac	gcaggccact	cctgtgacct	acaatgcttt	agggatcaaa	2700
	ccatgcaggt					2760
atttcttcct	ccacgctgag	tcactactta	aacgtggcga	gtagaatgag	attttaa	2817
			3 33 3	JJJ		
			3 33 3	JJ		
Seq ID 11						
Seq ID 11 atgaaatcct	ctcttcattg	gtttttaatc	tcgtcatctt	tagcacttcc	cttgtcacta	60
Seq ID 11 atgaaatcct aatttctctg	ctcttcattg cgtttgctgc	gtttttaatc tgttgttgaa	tcgtcatctt atcaatctag	tagcacttcc gacctaccaa	cttgtcacta tagcttctct	60 120
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa	ctcttcattg cgtttgctgc cctacactcc	gtttttaatc tgttgttgaa tccagcccaa	tcgtcatctt atcaatctag acaacaaatg	tagcacttcc gacctaccaa cagatggaac	cttgtcacta tagcttctct tatctataat	60 120 180
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg	ctcttcattg cgtttgctgc cctacactcc atgtctcaat	gtttttaatc tgttgttgaa tccagcccaa caccaatgca	togtcatctt atcaatctag acaacaaatg ggatctccga	tagcacttcc gacctaccaa cagatggaac cagctctaac	cttgtcacta tagcttctct tatctataat cgcttcctgc	60 120 180 240
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc	togtcatctt atcaatctag acaacaaatg ggatctccga caaggccacg	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa	60 120 180 240 300
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa	cttgtcacta tagettetet tatetataat egetteetge tetectacaa gettetetee	60 120 180 240 300 360
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaaccacga	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac	cttgtcacta tagettetet tatetataat egetteetge teteetacaa gettetetee aggaacagga	60 120 180 240 300 360 420
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaaccacga cagtcgaact	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta	cttgtcacta tagettetet tatetataat egetteetge teteetacaa gettetetee aggaacagga etttggccaa	60 120 180 240 300 360 420 480
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct	cttgtcacta tagettetet tatetataat egetteetge teteetacaa gettetetee aggaacagga etttggccaa ategetaaac	60 120 180 240 300 360 420 480 540
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct	cttgtcacta tagettetet tatetataat egetteetge teteetacaa gettetetee aggaacagga etttggccaa ategetaaae etattccacg	60 120 180 240 300 360 420 480 540
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggegeectc aaacaaagca tacgttaaac	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa	cttgtcacta tagettetet tatetataat egetteetge teteetacaa gettetetee aggaacagga etttggccaa ategetaaae etattccacg	60 120 180 240 300 360 420 480 540 600
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccattta	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac	togtcatctt atcaatctag acaacaaatg ggatctccga caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaaag tcagcatcat agcagtttta	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt	60 120 180 240 300 360 420 480 540 600 660 720
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agctttataa	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccattta acaatagtgt	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagccat	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt	60 120 180 240 300 360 420 480 540 600 660 720
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agctttataa agtacatcag	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccattta acaatagtgt cccccaaacc	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagccat acggggaaccat	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata	60 120 180 240 300 360 420 480 540 600 660 720 780 840
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg agctttataa agtacatcag ggaaatacag	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccattta acaatagtgt cccccaaacc caattactag	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggegeectc aaacaaagaa cacggaagct gaccgcaacc agtcttaact tggtggggcg	tegtcatett atcaatetag acaacaaatg ggateteega caaggecaeg accaatacag caaccaega cagtegaaet caaggeaget acgeaaaaag teageateat agcagttta tegetacag ctateagaea atttataetg	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagccat acggggaact acagtctagt	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tcttcttct	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg agctttataa agtacatcag ggaaatacag ggaggacta	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtgt cccccaaacc caattactag cgtttttaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggcg aaacaactct	tegteatett ateaatetag acaacaaatg ggateteega caaggecaeg aceaatacag caaaccaega cagtegaaet caaggeaget acgeaaaaag teageateat ageagttta teagetacag ctateagaea atttataetg getatagata	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagcat acggggaact acagtctagt ctgcagctcc	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctccc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttcttct cttaggagga	60 120 180 240 300 360 420 480 540 600 720 780 840 900
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg agctttataa agtacatcag ggaaatacag ggaggacta gcaattgcga	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtgt cccccaaacc caattactag cgtttttaa ttgctgact	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggcg aaacaactct	tegteatett ateaatetag acaacaaatg ggateteega caaggecaeg aceaatacag caaaccaega cagtegaaet caaggeaget acgeaataaag teageateat ageagttta teageatacag ctateagaea atttataetg getatagata agtetttegg	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagcaat acggggaact acagtctagt ctgcagctcc ctcttggtgg	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctccc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttcttct cttaggagga agacatcact	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg agctttataa agtacatcag ggaaatacag ggaagaccta gcaattgcga tttgaaggaa	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtgt cccccaaacc caattactag cgcttttaa ttgctgactc acacagtagt	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggegeectc aaacaaagaa cacggaagct gaccgcaacc agtcttaact tggtggggcg aaacaactct tggatetttg caaaggagct	tegteatett ateaatetag acaacaaatg ggateteega caaggecaeg aceaatacag caaccaega cagtegaaet caaggeaget acgeaacaag teageateat ageagettat ateagetacag ctateagaea atttataetg getatagata agtettegg tettegagte	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagccat acggggaact acagtctagt ctgcagctcc ctcttggtgg agaccactac	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctccc aggaacagga ctttggccaa atcgctaaac ctattcacag taccgcggcg caaagcaatt ttactgtagt gaactttata tcttcttct cttaggagga agacatcact cagaaattct	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg agctttataa agtacatcag ggaaatacag ggaggacta gcaattgcga tttgaaggaa attaacatcg	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtgt cccccaaacc caattactag cgcttttaa ttgctgactc acacagtagt gaaacacaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttctttc ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca cacggaagct gaccgcaacc agtcttaact tggtggggcg aaacaactct tggatctttg caaaggagct tgctaagatt	tegteatett ateaatetag acaacaaatg ggateteega caaggecaeg aceaatacag caaccaega cagtegaact caaggeaget acgeaatacat acgeateat ateagetacag ctateagaca atttatactg getatagata agtettegg tettegagte gtacagetge	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa atgggagcat acggggaact acaatctagt ctgcagctcc ctcttggtgg agaccactac gagcctctca	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattcacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttcttct cttaggagga agacatcact cagaaattct aggcaatact	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agctttataa ggaagtacatcag ggaaatacag ggaagtacat gcaattgcga ttgaaggaa attaacatcg attacatcd	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagcattta acaatagtgt cccccaaacc caattactag cgctttttaa ttgctgactc acacagtagt gaaacaccaa atgatcctat	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggcg aaacaactct tggatctttg caaaggagct tagatcaagat tagatcaagat	togtcatctt atcaatctag acaacaaatg ggatotccga caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca atttatactg gctatagata agtctttcgg tcttcgagtc gtacagctg atcactgcag atcactgcag atcactgcag	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagt cttetggtg agaccactac gagcctctca cagcctctca ctctctcaga	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttcttct cttaggagga aggaatact cagaaattct aggcaatact tgctctaaac	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggaggatta aacaatggcg agcttaatag ggaaatacag ggaagtacat gcaattgcga ttgaaggaa attaacatcg atttaacatcg attaacatcg	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagcattta acaatagtgt cccccaaacc caattactag cgctttttaa ttgctgactc acacagtagt gaaacaccaa atgatcctat ctgaccttgc	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggcg aaacaactct tggatctttg caaaggagct tgctaagat acaactagc agggaatcc	togtcatctt atcaatctag acaacaaatg ggatotcega caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca atttatactg gctatagata agtetttegg tcttcgagtc gtacagctga gcatatcaag gcatatcaag gcatatcaag	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagt cttetggtg agaccactac gagcctctca gagcctctca gagccactac	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tcttaggagga agacatcact cagaaattct aggcaatact tgctctaaac atttctgga	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200 1260
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agtttataa agtacatcag ggaaatacag ggaaatacag ggaggaccta ttgaaggaa attaacatcg atttaacatcg	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtgt cccccaaacc caattactag cgtttttaa ttgctgactc acacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggg tggatcttt caaaggagct taacagca tagaactct agaagct tagaactct caaaggagct tagaactct agaaggagct	tegteatett ateaatetag acaacaaatg ggateteega caaggecaeg aceaatacag caaaccaega cagtegaact caaggeaget acgcaaaaag teageateat agcagttta teagetacag ctateagaca atttataeta getatagate tettegagte gtacagetge atcactgeag geatateaag getgatataa	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagcat acggggaact actatcagtc gctettgggaac acggggaact acggggaact actacgtcc ctcttggtgg agaccactac gagcctctca gagcactcca tctctcaga gaaccatcgt tcaaatctact	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttgtgcga aggaatact cagaaattct aggcaatact taggcaatact tagtgcaatact cagaaattct aggcaatact tagtctctaaac attttctgga aattcagcaa	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1140 1200 1260 1320
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agtttataa agtacatcag ggaaatacag ggaaatacag ggaagtacta ttgaaggaa attaacatcg atttaacatcg ccatctactct ttaaatggtc	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattacaa gagcatta acaatagtgt cccccaaacc caattactag cgtttttaa ttgctgactc acacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga ttgcgggagg	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtaccttt gtcactaata ttgttctatt aggcgccct aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggcg tagactctt caaaggagct caaaggagct caaaggagct caaaggagct caaaggagct caaaggagct	togtcatctt atcaatctag acaacaaatg ggatotcega caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca atttatactg gctatagate gtcatcgagt tcttcgagtc gtacagctgc gtacagctgc atcactgcag gcatatcaag gctgataatc gctgataatc ccttaaatcag	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagtc ctcttggtgg agaccactac gagcctctca gagaccatcac gagaccatcac gagaccatcac gagaccatcac gagaccatcc	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttgtgcga aggaatact cagaaattct aggcaatact taggcaatact tagtgcga agcatcact cagaaattct aggcaatact agttctgga aattcagcaa agttgccaag	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1140 1200 1260 1320 1380
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agcttaatacag ggaaatacag ggaagtcta gcaattgcga ttgaaggaa attaacatcg atctacttct ttaaatggtc gagaagcctc cctctaactc tccttttcgc	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagcattta acaatagtgt cccccaaacc caattactag cgtttttaa ttgctgactc acacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga ttgcgggagg aatctccggg	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggatctttg caaaggagct tgctaagat tacaactact tggatctttg caaaggagct tgctaagat aacaactct tgctaagat acaactagc agggaatcct agctgcagaa gcaactctct ctctaccctc	togtcatctt atcaatctag acaacaaatg ggatotcega caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca attatactg gctatagata agtetttcgg tcttcgagtc gtacagctgc atcactgcag gcatatcaag gctatacag cttatagaca gctatagata actcttcgagtc gtacagctgc atcactgcag gcatatcaag gctgataatc cttaaatcag ctcatggatg	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagt ctettggtgg agaccactac gagcctctca ctctctcaga gaaccatcgt tcaaatctacg tcaaatctac cagggaacca	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttcttct cttaggagga aggaatact tagcaatact tgctctaaac tattctgga agacatcact cagaaattct aggcaatact tgctctaaac atttctgga aattcagcaa agttgccaag attagaaacc	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1140 1200 1320 1380 1440
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agcttaatacag ggaaatacag ggaagtacata gcaattgcga ttgaaggaa attaacatcg atctacttct ttaaatggtc gagaagctct cctctaactc tccttttcgc gctgatggga	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagcattta acaatagtgt cccccaaacc caattactag cgcttttaa ttgctgactc acacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga ttgcgggagg aatctccggg tcactatca	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggcg aaacaactct tggatctttg caaaggagct tgctaagat acgacacc tgctaagat cacggaacc ttggatctttg caaaggagct tgctaagat aacaactagc agggaatcct agctgcagaa gcaactctct tctaccctc taatcttgtt	togtcatctt atcaatctag acaacaaatg ggatotcega caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca attatactg gctatagata agtetttcgg tcttcgagtc gtacagctgc gtacagctgc atcactgcag gcatatcaag gctgataatc cttaaatcag ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagt cttetggtg agaccactac gagcctctca gagcctctca ctctctcaga gaaccatcgt tcaaatctac tcagggaccac attccttaaa attaccac tcagggaccac attccttaaa	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattcacg taccgcggcg caaagcaatt ttactgtagt gaactttata tcttatgtaa aggaacatcact cagaaattct aggcaatact tgctctaaac atttctgga aattcagcaa agttgccaag attagaaacc agagaccaag	60 120 180 240 300 360 420 480 540 600 720 780 840 960 1020 1080 1140 1200 1320 1380 1440 1500
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agtttataa ggaagtacat ggaaatacag ggaaatacag ggaaattgcga tttgaaggaa attaacatcg atctacttct ttaaatggtc gagaagctct cctctaactc tccttttcgc gctgatggga aaggctacgc	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctatt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagcatta acaatagtgt cccccaaacc ccaattactag cgtttttaa ttgctgactc acacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga ttgcgggagg aatctccggg tcactatcaa taaaagcaac	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtaccttt gtcactaata ttgttctatt aggcgccctc aaacaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggcg tagacactct tggatcttt caaaggagct tgctaagat acaactagc agggaatcct agctgcagaa gcaactctc tctaccct taatcttgt acaagcaagt	togtcatctt atcaatctag acaacaaatg ggatotcega caaggccacg accaatacag caaaccacga cagtcgaact caaggcagct acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca atttatactg gctatagata agtettcgg tcttcgagtc gtacagctgc atcactgcag gcatatcaag gctatacag cttacagctg atcactgcag gcatatcaag gctatacag cctatagata cctaagctg atcactgcag gcatatcaag gctgataatc cttaaatcag ctcatggatg ctcaatgtag cagacagtca	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagt ctcttggtg agaccactac gagcctctca gagcctctca gagcactctca ctctctcaga gaaccatcgt tcaaatctact cagggacca attccttaaa ctttatctgg	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tcttagtgaga agacatcact cagaaattct aggcaatact tgctctaaac atttctgga aattcagcaa agttgccaag attagaaacc agagaccaag atcgctctct	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1140 1200 1320 1380 1440 1500
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aactttcta cccaacctaa ggagggatta aacaatggcg agtaatacag ggaaatacag ggaaatacag ggaaatacag ggaaggccta ttgaaggaa tttgaaggaa tttgaaggaa tttgaaggaa tctacttct tcaattgtc gagaagctct cctctaactc tccttttcgc gctgatggga aaggctacgc cttgtagatc	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtgt cccccaaacc caattatta tgctgacta tgcagtattta tgctgacta caacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga ttgcgggagg aatctccggg tcactatcaa taaaagcaac ctctggaaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtacctt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtgtgggg aacaactctt caaggagct taacatttgtcaagatt caaggagct tcaagatcttt caaaggagct tcatacct tgtcaagat tacaactagc agggaatcct agctgcagaa gcaactctct taatcttgtt acaagcaagt tgtctacgaa	togtcatctt atcaatctag acaacaaatg ggatotcega caaggccacg accaatacag caaaccacga cagtcgaact caaggcatcat acgcaaaaag tcagcatcat agcagttta tcagctacag ctatcagaca attatactg gctatagaca agtetttcgagt cttcgagtc gtacagctgc atcactgcag gcatatcaag gctgataatc cttaaatcag ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctcatggatg ctaagctgc gagacagtca gatgtcttt	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagccat acggggaact acatctagtc gagccactac gagcctctca gagcctctca gagccactac gagcactcc cagggaccac attcttcaga gaaccatcgt tcaaatctac gagtcactct cagggaccac attccttaaa ctttatctgg ggaataaccc	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttcttct cttaggaga agacatcact cagaaattct aggcaatact tgctctaaac attttctgga aattcagcaa agttgccaag attagaaacc agagaccaag attagaaacc agagaccaag atcgctctct tcaagtcttt	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1140 1200 1320 1380 1440 1500 1560
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg agttaaaa agtacatcag ggaaatacag ggaagtacat gcaattgcga tttgaaggaa tttgaaggaa tttgaaggaa tttgaaggaa tttgaaggaa tctacttct tcaactct tcaactct tcaattgcg gctgatggga aaggctacgc cctttaactc tccttttcgc gctgatggga aaggctacgc cttgtagatc	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtg cccccaaacc caattactag cgtttttaa ttgctgacta ttgacactag acacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga ttgcgggagg aatctccggg tcactatcaa taaaagcaac ctctggaaa ctcttactg	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtacctt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggg aaacactctt caaaggagct tagatctttg caaaggagct tgctaagat tactagcaagat tactagcaagat tactagcaagat tgctacagaa tactcctc tatccctc taatcttgtt acaagcaagt tgtctacgaa tgctacgaa tgcacccc	tegteatett ateaatetag acaacaaatg ggateteega caaggecaeg aceaatacag caaaccacga cagtegaact caaggeaget acgcaaaaag teageateat agcagttta teagetacag ctateagaca attatactg getatagata agtettegag tettegagte gtacagetge ateactgeag getatacag getataate gtataaat getgatatea getgatatea getgatatea getgatatea getgatatea getgatatea getgatatet gtacagetge ctcaatggatg ctcaatgtag cagacagtea gatgtetett gegaatate	tagcacttcc gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct tttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagtc ctcttggtg agaccactac gagcctctcag gaaccatctc gagtcactct cagggaccac attccttaaa ctttatctgg ggaataaccc acttcttaga gaccacca catcacaga	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tctttctct cttaggaga aggaacacc aggaaatct tgctctaaac tagtcataac tcagaaattct aggcaatact tagtcaga agttgccaag atttcagaa agttgccaag attagaaacc agagaccaag attagaaacc tcaggaccaag attagaaacc tcaggaccaag attagaaacc agagcccatct tcaagtcttt cttagctgct	60 120 180 240 300 360 420 480 540 600 720 780 900 960 1020 1140 1200 1320 1380 1440 1500 1560 1620 1680
Seq ID 11 atgaaatcct aatttctctg ggaccaggaa ctaacagggg tttaaagaaa aatatcgatg ttttcaggat gccatcaagt aacttttcta cccaacctaa ggagggatta aacaatggcg agtttataa agtacatcag ggaaatacag ggaaatacag ggaaatacag ggaaattgcga tttgaaggaa tttgaaggaa tttgaaggaa tttgaaggac tttaactct ttaaatggtc gagaagctct cctcttacctc tccttttcgc gctgatggga aaggctacgc cttgtagatc tcttgtctca gatcccctag	ctcttcattg cgtttgctgc cctacactcc atgtctcaat ctactgggaa cgggagcgaa tctcctattt ccacaggagc atgacaatgg cgtttgccaa caattaacaa gagccatta acaatagtgt cccccaaacc caattatta tgctgacta tgcagtattta tgctgacta caacagtagt gaaacaccaa atgatcctat ctgaccttgc cggaagcaga ttgcgggagg aatctccggg tcactatcaa taaaagcaac ctctggaaa	gtttttaatc tgttgttgaa tccagcccaa caccaatgca tctttcttt ctgtacctt gtcactaata ttgttctatt aggcgccctc aaacaaagca tacgttaaac cacggaagct gaccgcaacc agtcttaact tggtggggg aaacaactctt caaaggagct tagatctttg caaaggagct tagatctttg caaaggagct tagatctttg tacaactagc agggaatcct agctgcagaa gcaactctct tatctgtt acaagcaagt tgtctacgaa tgtctacgaa tgtctacgaa tgacgcccc tatccattgg	tegteatett ateaatetag acaacaaatg ggateteega caaggecaeg aceaatacag caaaccacga cagtegaact caaggeaget acgcaaaaag teageateat ageattta teagetacag ctateagaca attatactg getatagaca agtetteegag tettegagte gtacactgeag getatacaag getgataate cttaaateag ctcatggatg ctcatgatcag gatgetett gegaatate ggataccaag	tagcacttec gacctaccaa cagatggaac cagctctaac gctaccaatt ctgcaaataa atgctaccac atagttgcta ctatcagtct ggggtgccct ttctgaaaa ttagcagcaa ggggagcat acggggaact acatctagtc gagcctctca gagcctctca gagcctctca gagccactac gagcactctc cagggaccac attccttaga gaaccatcgt tcaaatctacg gatcactct cagggaccac attccttaaa ctttatctgg ggaataaccc acatcacaga gggaattgggc	cttgtcacta tagcttctct tatctataat cgcttcctgc tctcctacaa gcttctctcc aggaacagga ctttggccaa atcgctaaac ctattccacg taccgcggcg caaagcaatt ttactgtagt gaactttata tcttctctc cttaggaga agacatcact cagaaattct aggcaaatcc tgctctaaac atttctgga aattcagcaa agttgccaag attagaaacc agagaccaag attagaaacc agagaccaag attagctctct tctagctgct attatcttgg tcaagtcttt cttagctgct attatcttgg	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1140 1200 1320 1380 1440 1500 1560

aatccgaatc	ctgagcgtcg	tggaacctta	gttgctaaca	cactatgggg	atcctttgtt	1860
gatgtgcgct	ccatacaaca	gcttgtagcc	actaaagtac	gccaatctca	agaaactcgc	1920
ggcatctggt	gtgaagggat	ctcgaacttc	ttccataaag	atagcacgaa	gataaataaa	1980
		aggttatgtt				2040
		ctgccaatta				2100
aaaaatagag	cttctgccta	tgcagcttct	ctccatctcc	accatctacc	gaggttgtgt	2160
		ccttcctgga				2220
		tagtaaaaat				2280
		taatgacggt				2340
		gggtctcttc				2400
gcttcgtaca	tacaccaaga	tagcttcaaa	gaacgtaata	ctaccttggt	acgatctttc	2460
gatagcggtg	atttaattaa	cgtctctgtg	cctattggaa	ttaccttcga	gagattctcg	2520
agaaacgagc	gtgcgtctta	cgaagctact	gtcatctacg	ttgccgatgt	ctatcqtaaq	2580
		tctcctaatc				2640
aatctctcaa	gacaagetgg	tatcggaaga	gcagggatet	tttatgcctt	ctctccaaat	2700
cttgaggtca	caagtaacct	atctatggaa	attcotogat	cttcacacaa	ctacaataca	2760
	gtaagttcca		accogeggae	ccccacgoag	ccacaacyca	2787
5400009949	goddgoood	gooccaa				2/0/
Co. TD 10						
Seq ID 12						
atgtttgaga	agttcactaa	tagagcaaaa	caagtcatta	aactggcgaa	aaaggaggct	60
cagcgtttaa	atcataacta	cctgggtact	gagcacatcc	tgcttggtct	tctcaaactt	120
ggtcaagggg	tagctgttaa	tgtattacgc	aacctcggta	tagattttga	tacggcacgg	180
caagaggtgg	aacgcctgat	tggttatggt	ccagaaattc	aagtctacgg	agaccctgcc	240
		atcttttgaa				300
		gcatttactc				360
gctcttcagg	tattagaaaa	cttacatatc	gat.ccaagag	aggitegtaa	ggaaattett	420
aaagaattag	agacetteaa	tctacaactt	cctccttcat	catcatatta	ttaataataa	480
tetegaacca	agacetteata	ttcaaaatct	cottteecte	otogetteet	ttatasass	
						540
		gaaagcatat				600
		tggtcgttct				660
tgccgaagaa	gaaaaaacaa	tcctgtactt	attggagaag	ctggagttgg	taagactgca	720
attgttgagg	gtctggctca	aaaaatcatt	ctgaatgagg	ttcctgatgc	cttacggaaa	780
		tctagcatta				840
tttgaggaac	ggatcaaagc	tgtcatggat	gaagttcgca	agcatggaaa	catcttgctc	900
ttcattgacg	agctccacac	gattgtagga	gcaggagcag	ctgaaggtgc	tatcgatgct	960
		gttagcgcga				1020
		catagaaaaa				1080
atcgtggttc	accctcctag	tgtagatgag	actattgaga	ttttacqtqq	cctcaaqaaa	1140
aagtatgaag	aacatcacaa	tgtcttcatt	actgaagaag	ctttaaaagc	agctgcgact	1200
ctttctgatc	aatatqttca	tggacgtttc	ctccctgata	aagcaataga	tcttttagat	1260
gaagetagaa	ctcatatcca	tgtgaataca	atgggtcagc	ctacagattt	aatgaageta	1320
gaggetgaaa	tcgaaaatac	aaaattggcc	aaagaggagg	ccattggaac	tcaagaatac	1380
gaaaaagctg	caggtttacg	tgatgaagag	aaaaaacttc	acasacatet	acasaatsta	1440
		taaagaagag				1500
actoragate	tttatataaa	anagaagag	caccaageee	ccgcagacga	agaagcagcc	
gereaggrag	tessettaea	aacaggaatt	cccccagcaa	ggctcacaga	agetgaaagt	1560
gagaagette	rgaagitaga	agacacgtta	agaagaaaag	tcattggtca	aaatgatgcc	1620
grtaccagca	tttgccgtgc	catccgacgt	tctcgaacag	ggatcaaaga	tcctaaccga	1680
cctacgggct	ccttcctatt	ccttgggcct	accggtgtag	ggaaaagcct	gctcgcccaa	1740
caaattgcta	tagagatgtt	cggtggtgaa	gacgctctga	ttcaggtaga	catgtcagag	1800
tacatggaga	aatttgctgc	taccaagatg	atgggatcac	ctccaggata	tgtaggtcat	1860
gaagaagggg	gccaccttac	ggaacaggta	cgtcgccgtc	cttactqcqt	tqttctcttt	1920
gatgagatag	aaaaggcaca	cccagacatt	atggacctga	tottocaaat	tttagagcaa	1980
ggacgtctta	ctgattcttt	tggtcgcaaa	gtggatttcc	gtcatgccat	tattatcato	2040
acctccaatt	taggagetaa	tctcattcgt	aaaaacaaaa	aaattoottt	taacttaaaa	2100
teccatatee	actataacct	catccaagag	2222100220	atactatas	cogceegaag	2160
aagggtgagt	tasttssaaa	tttaastass	actataattt	taataaa	gaaacaccca	
tetetatata-	aratest	tttggatgaa	agugugatut	recycecee	cyayaaagaa	2220
annate e e e e	agaccaccca	tttagagatc	adcadactgg	actegagact	gaaaaaccac	2280
caaalggctt	rgaacatccc	agactctgtg	atttccttcc	tagtaacgaa	ggggcattct	2340
ccagaaatgg	gagcacgtcc	tctacgccgt	gtcattgagc	agtaccttga	agatcctcta	2400
gcggagctct	tgcttaaaga	gtcctgccgt	caagaagctc	gcaagctacg	agcaaccttg	2460
gttgaaaatc	gcgttgcctt	tgaaagggaa	gaagaggagc	aggaagctgc	tctccctage	2520
cctcacttgg	aatcatag			•		2538

atggggetge aatecaggt	: acaacattgt	atagaagtgt	cccagaattc	gaactttgat	60
tcacaagtaa aacagttta	ctatocotoc	caagataaga	cattaaggca	gtctgtactc	120
aagattttcc gctaccatce	tttactasaa	attratrata	ttactacaaa	getetatet	180
theatenant transcript	- cccaccaaaa	acceatgata	cegeeeggge	egiciaceii	
ttgatggcct tagaagaag	j egaggattta	ggcttaagct	ttttaaatgt	acagcagtac	240
ccttcaggtg ctgtagaac	: gttttcttgt	gggggatttc	cttggaaagg	attaccttat	300
cctgcagaac atgcggaat	tggcctactc	ctgttacaga	tegcagagtt	ttatgaagag	360
agtcaggcat acgtctcta	aatgagtcat	tttcaacagg	cactctttca	tanaganga	420
aggetette estetet			tactectiga	ccaccaaggg	
agegtettte cetetetet	gagecaggag	aactetegae	teetaaaaga	aaagacaact	480
cttagccaat cgtttctct	: ccaattagga	atgcaaattc	acccagaata	cagtcttgag	540
gatcctgcac tagggttctq	gatgcaaaga	acgcgttctt	catccgcttt	tgtagccgct	600
tcaggatgtc aaagtagcti	. gggagcgtat	tecteaggg	atotcootot	tatemettat	660
agagettagt stagagaga		****			
ggaccttgct ctggagacat	cagigatigi	carracting	gatgttgtgg	aategetaaa	720
gagttegtgt gecaaaaat	: tcaccaaact	acagagattt	cttttctcac	ctctacagga	780
aagcctcatc ccagaaata	gggattttcc	taccttcgag	attcctatgt	acatctgccg	840
atccgctgta agatcactat	ttccgacaag	caatat.cccc	tacacactac	attaactaaa	900
gccacctctg ccatgacgt	ttetattte	tataaaaaaa	agaattgtga	aattattaaa	960
seesst seet teessteet		Lycaayyyya	agaaccgcca	ggilgligat	
ggeeeteget tgegeteete	tteeetagat	tcttataaag	gtcccggaaa	cgacattatg	1020
attcttgggg aaaatgacg	: aatcaacatt	gtttctgcaa	gtccctatat	ggaaattttt	1080
gctttgcaag gcaaagaaa	attttggaat	qcaqactttt	tgattaatat	tccttacaaa	1140
gaagagggcg tcatgttaat	: ttttgaaaaa	aaagtgacct	ctgagaaagg	aagattett	1200
		aaagogaooc	cegagaaagg	aagaccccc	
acgaagatga attaa					1215
Seq ID 14					
atgacaaaga tagcttttt	tgaaaaggca	aagaattttc	ctgtagaggc	attaaaaaaa	60
tggtttgaaa aaaataaac	atctcttcct	tagagagata	200000000000	atataatata	120
teastttess sesttates		cygayayaca	accegaceee	ctatagigig	
tgggtttccg aagttatgc	. acagcaaacg	cgagctgaag	ttgttataga	ttattttaat	180
cagtggatgg agagatttc	: taccatagag	tctttagctg	cagcaaaaga	agaagatgtc	240
attaagttat gggagggati	: gggttattat	tctcgagcgc	qccatctttt	agagggagct	300
cgcatggtta tggaggagti	: tcatggaaag	atccctgatg	atoccattto	cttacctcaa	360
attentages that out:	taggettgat	actottgacg	action	toone	
attcgtggag ttggtcctta	Lacyguical	getattetag	cettegettt	taagaggegt	420
gctgctgctg tggatggcaa	tgtettgegt	gttcttagcc	ggatattttt	gatagaaact	480
tctatagact tagaatcaac	: tcgtacttgg	gtttctagga	ttgctcaagc	gcttcttcct	540
cataagagtc ccgaggtta	agctgaggct	ctgatagagt	taggagetta	tatctgtaaa	600
aaagttcctc aatgtcatc	ttatactata	antasanat	atagagatta	anaaanaan a	660
anageroos dangedace		cgccaagcac	grayagerra	yayyyayaac	
aaacagttcg tattgccggt	. acgreatgee	agaaaaaagg	tcatctttt	gcatcgtttg	720
gtagcgattg tattgtacga	tggctctttg	gttgtcgaga	agagacgtcc	taaagaaatg	780
atggcaggct tatatgaati	: tccttatatt	gaagttgaac	cagaggaagg	tcttcaagat	840
atagaaggat ttactaagaa	qatqqaqctt	tetttagaaa	gccctttgga	attettaggt	900
aaccttaaag aacagcggca	tacatttact	aatcataadd	ttestttete	tootataatt	960
tttooogaa attatata		auccacaagg	tttt	tectataatt	
tttaaagcca cttctctgc	: ceagtteggg	gaattgcatc	ttttgagtga	tatagatcac	1020
ttagcttttt cttcaggaca	ı caaaaagatt	aaagatgctt	tgctaatcta	cctcggggat	1080
gtcaggtcta gagaatcaat	: aggagtatag				1110
_		•			
Seq ID 15					
_					
atggcagttt caggtggcgg					60
gctctgcaag gagagcagg	: agaaggcccg	tctccgctaa	aagaatctat	attttctgaa	120
accaagcagg cctcctctg	tgcgaagcag	gaaagcttag	tgcgttcagg	atctacagga	180
atgtatgcaa cagaatctca	gataaataag	gctaagtatc	gtaaagetea	agategatea	240
tcaacctctc caaaatcca	attassaat	agattttata	2224	tastetessa	
tcaacctctc caaaatccaa	. accyaaayyt	acallicida	aaacgegege	tagigigidaa	300
ggattcatgt caggattcgg	accceggget	tcgagagtgt	cagcaaagcg	tgcttccgat	360
agtggtgagg gaacatcct	: attgccgaca	gagatggatg	ttgctctaaa	gaaqqqaaac	420
cgtatttcac ctgaaatgca	qqqatttttc	ttagatgett	coogtatogo	agggagttcc	480
tctgatattt ctcagctttc	tttagagget	ttasastatt	daggatttt.	200100000	540
agtit aget tooggetet		togadacott	cagcaccccc	aggugedagg	
agtttaagtt taagctctto	: agaatetagt	teegtggett	cgtttggatc	tttccaaaag	600
gccatagagc ctatgagtga	ı ggagaaggta	aatgcttgga	cagtggctcg	tttaggaggg	660
gagatggtca gctctcttct	: cgatcccaat	gttgagacct	catcattagt	gcgcaggga	720
atggcaacag gcaacgaagg	catoatacat	ctttctcatt	taggagaga	anaggtoogt	780
acaddata astataaa	,	aaaaaaaatt-	aggacagga	Lagaggecage	
acagccatga catctccca	aycaycayaa	yyaaaagtaa	aggratette	ttctgattct	840
ccagaagcga atccaacag	<sub>T</sub> aattccaaat	tctaatactt	tagaaagggc	ggaaaaggaa	900
gcagagaaac aagaaagtc	, agagcagttg	agtgaggatc	agatgatgct	tgcacgtgct	960
atggctgggc ttcttacagg	ggcagcgcct	caaqaqqtat	tgagtaattg	tatttaatet	1020
ggtccttcta cagtatttc	tecteceae	tttttggggaa	ctttacccs	-Jourgator	
ggagataaat gaaaggata	atatasaa-	atagagaga	ata and a second	tagagatug	1080
ggagataaat caaagcataa	acciccagga	acayayaaga	yeacgaacca	cacgaacttt	1140
teteetette gggaaggtad	: tgtgaagagt	gctgaggtta	aaagtttgcc	tcatccagaa	1200

agtatgtatc	gttttcctaa	agatagcatc	gtttccaggg	aggaacctga	agccgttgtt	1260
	cggcattcaa					1320
	ttttccctaa					1380
agttcctcat	atcatttcct	tgcgcaacgt	ggagtgtctt	tactcgctcc	tctacctcqt	1440
gctactgatg	actataaaga	gaagctcgaa	gctcataaag	gtcctggagg	tcctccagat	1500
	atcagtatcg					1560
cagccgtttt	caggatette	acgtctatcg	gttcaaggaa	agcetgaage	tacttcaatt	1620
catgacgatg	gtggggggg	aaatagtggt	ggttttagcg	gagatcaaag	aagaggatct	1680
tcgggccaga	aagcttcccg	tcaggaaaag	aaqqqaaaaa	aattatctac	ggatatttag	1740
	_	-	<b>3</b> 33		33	
Seq ID 16						
atgaaacgaa	gatcatggct	taaaattttq	qqaatctqtt	taggcagcag	cattotetto	60
ggattcctta	tattcttgcc	ccaactactt	tcaacagaat	cagggaaata	cettatatet	120
tecetgatte	ataaagaatc	cagactetea	tattetacta	aagaacttaa	gatttcatgg	180
tttggacggc	aaacagctag	aaaaataaaa	ctcactggag	aagctaaaga	tgaggtettt	240
tctgctgaga	aattcgaact	cgacggatct	ctattacctc	ttctgattta	taaaaagcct	300
aaaqqqatta	ctctatcagg	atggtcttta	aaaattaato	agectgeete	tatagaccat	360
ccttctgtga	gtcacttaga	tccaggatct	ttacttacct	acctaaatga	ctgcaagatt	420
atttctgage	acggatttat	cactatgaag	acagtatcag	gatetteatt	atctotatca	480
gggttttatc	tagagaaatc	ctcagaaaag	ttcatgacga	aatgcgtggt	ctctgaagat	540
cagcaatccg	ggaacatctt	tatagagagt	gtactttctc	ctgatgtcag	tatttccgct	600
caqttttctt	cagttcccgt	tocattttt	aaaatttta	tagetteece	tttctgggac	660
catcttctct	cttatgaaga	cataatcaat	ctatcagcag	addcaacaca	taccaatgat	720
ggtaagattt	ctatgacagc	ctctggcgag	ggaaatcaaa	ttcaaatgaa	acttcaaaac	780
catattcata	aatccacatt	ttatattgta	gaaggagtt	cttcattcat	agaacttaaa	840
cetgageteg	cctcagctct	ttgcaaccag	atcattcccc	tatccacacc	cattactact	900
aaqcaaatcc	atgctacggt	ctcttatcct	aaaattccct	togatattac	gasatggasa	960
catattgaaa	ttacctctca	agcacagete	cctgaagtcg	caatacatcc	gaaagagggt	1020
aatcttgcat	tacagctgcg	cgacacaaag	ctaggaatta	aaaagacgga	gaaattetea	1080
gacatccgtt	actcctcatc	tacagtetta	ggaggaget.t.	ctccctctca	ccttaatggt	1140
ttaatcaqta	tagataacaa	aaaacatctt	actaaatttc	gtctacaaca	agcacaactc	1200
ccccacacct	atctaagagc	cattttccct	caacctttco	tgatcaatgt	tcccctggat	1260
gttgcttatt	attcattaaa	tatcqaaqqq	acgtacaaaa	atoctcactt	agagggagat	1320
gctatcctag	ataacccgct	attgaaattg	tcatgctcca	tatctagage	atggaaaaat	1380
tttcttttta	aagggcaagg	aacqtaccac	tttaataaaa	aatggcagga	gattetetet	1440
cccacttct	cttacgctga	agctagattc	tcaggaaaag	cacaaattac	cgatacgaat.	1500
ctctttttcc	ctaaattttc	tggaaaaatt	actgcaagag	aaaatgagct	gctcatccat	1560
gcaaaatttg	gttcccctaa	tgaacctata	aaacctgaaa	ctacctctat	actcatccac	1620
ggacaatttt	gttetetgee	actcagecta	gtttctaatc	acctaqcccc	cttccatttq	1680
aagaaattga	cattttcctt	ccatacggat	ggaggtaagt	ttqtaaccaa	aggaaacctc	1740
caagctctta	ttgagaatcc	agactatccc	gacctaaata	atacqcqtat	cctaatccct	1800
gatcttcttc	tttctcttga	tgaatcctca	acttcacctt	cttcaaaaqa	cttgaaaatc	1860
cagggttctg	gagagatatt	ttctttgcct	ctggattcta	ttactaagac	ctatgggaaa	1920
caagtgcgtc	tctctcctta	tittggttcc	tetggagaet	tgaactttgt	agtaaactac	1980
aatcctaaag	atcagaataa	gctcacacta	ctatctaact	ttaagtcaga	agctctccta	2040
ggagaactga	agttagtcat	ggacttttct	atgaagctat	cttcaggaac	tcagggaact	2100
ctccagtggg	aagtgagccc	agaacgttat	gcaagtttct	ttaaaaacgc	atcatgctct	2160
cccacctgtt	tgcttcatag	aactgcaaat	gtacgcttag	acatctcaaa	actctcttqt	2220
ccagaggaaa	ccaaaggttt	atcttgtctc	acgettettg	ccgcaggagg	acttgaaggt	2280
tcattagaag	caacaccgtt	gatcttctat	gataatgtgt	ctaaagagac	ttttattatt	2340
aatgacttta	aaggttcttt	gcgagccaac	aatttagacg	ctaaaataqa	atatgatett	2400
aaaggctcgt	gtctagctcc	taggcaagac	tctaaaactc	ttgcagaatt	ttcattagaa	2460
ggacaggtag	atcatctgtt	ctctccagag	tctcgagaat	ttaaacaaac	tocaaattoo	2520
attcacatac	cctcttcgtt	cattgctgga	atcattccca	tqtctccaqq	attgaaagct	2580
cagatatcct	cgcttgcagg	ccctagaatc	aacgtatcaa	ttaaaaatgc	gttccgattt	2640
ggagaaggcc	ctgtcgacat	tatggtcgac	tctgaaaacc	ttcaagctca	gattccactg	2700
atcttaaacg	aaaagtccat	cttactgaga	gagaatctaa	cagcgcacct	tagtataaat	2760
gaagatgtaa	ataaggcttt	cctacaaqaq	tttaatcccc	tcttagcagg	gggagggtag	2820
tcacaatacc	cagtaacctt	agagatcqat	aaacaaaact	tctatctccc	tatacoccco	2880
tattcttttg	aagaattccg	catccaatcc	gcaacattgg	atatogogaa	aatctcaata	2940
gcaaatacag	gaactatgta	tgctcttttc	caattccttg	atattacqqa	tcaaaaqcaa	3000
tttgtagaat	cttggttcac	tccaattttc	ttttctgtac	aaaaaqqctc	tatcatttot	3060
aagcgcytcg	acgcccttat	cgatcgtaga	atcegeette	ctctatgggg	gaaaactgat	3120
atcgctcatg	atcgtctgtt	tatgacetta	ggtatcqatc	ctgaagttat	taagaaatag	3180
- 3				- 5		

tegteteetg agtettggga	aagtggactg acccgtttag	gtcttcagct tagtcttgcc	tacgctagaa gataagctat	taaaaatccg tcgctctatt tctcttctct	aaaaagctac tggcgactct	3240 3300 3360
aataaatag	caacaytaca	Cecerceer	Lyggadadat	ctaattttga	ttetatagaa	3420 3429
Seq ID 17	atataaataa	ananaatan	<b>4</b> 0240222	thaasstsaa		60
actccaccta	tteetacaa	aaaaaataat	tataatttaa	ttccaatacc ttgaaaaggt	agegeecaeg	60
gctaagtaca	tactatttgc	aattgcagcc	acatcangan	cactcggaac	aattetaget	120 180
ctatctggag	coctaacccc	aggaataggt	attoccette	ttgttatctt	ctttatttct	240
atggtgcttt	taggtttaat	ccttaaaqat	tctataagtg	gaggagaaga	acqcaqqctc	300
agagaagagg	tctctcgatt	tacaagtgag	aatcaacggt	tgacagtcat	aaccacaaca	360
cttgagactg	aagtaaagga	tttaaaagca	gctaaagatc	aacttacact	tgaaatcgaa	420
gcatttagaa	atgaaaacgg	taatttaaaa	acaactgctg	aggacttaga	agagcaggtt	480
tctaaactta	gcgaacaatt	agaagcacta	gagcgaatta	atcaacttat	ccaagcaaac	540
gctggagatg	ctcaagaaat	ttcgtctgaa	ctaaagaaat	taataagcgg	ttgggattcc	600
tagatageea	aacagataaa	ractictatt	caagcattga	aagtgttatt	gggtcaagag	660
gctgaaattc	taggatga	caatcaatct	gcaatgcaag	agcaaattca aaaagtcagt	agcattgcaa	720
ttagtacaag	atcaagctct	aacaagagta	gtaggtaggt	tgttagagtc	tgagaateta	780 840
ctaagccaag	cttqttctqc	qctacqtcaa	gaaatagaaa	agttggccca	acatgaaaca	900
tctttgcaac	aacgtattga	tgcgatqcta	gcccaagagc	aaaatttggc	agagcaggtc	960
acagcccttg	aaaaaatgaa	acaagaagct	cagaaggctg	agtccgagtt	cattgcttgt	1020
gtacgtgatc	gaactttcgg	acgtcgtgaa	acacctccac	caacaacacc	tgtagttgaa	1080
				cagtatcaca	accatcttca	1140
cccgtagata	gagcaacagg	agatggtcag	taa			1173
Seq ID 18						
atgcgatatg	accccaactt	aatagaaaaa	aaatggcaac	aattttggaa	agaacatcga	60
agettteaag	caaatgaaga	cgaggataaa	gtaaaatatt	atgttttaga	catgttccct	120
gttgcgagat	ataaaagaga	acatgtagge	tagettette	gctatacagc	gacagatatt	180
tttggtttgc	ccacaaaagage	atatocoatt	canacaaaa	atcctatggg cccatcctaa	ergggarage	240 300
cagaagaata	tcgctaattt	taaaaaaacag	ctctccgcta	tgggattttc	gtatgatgae	360
ggacgagaat	ttgctacqaq	tgatcccgac	tattatcatt	ggactcagaa	acttttcctt	420
tttctttatg	atcaaggact	cgcctatatg	gccgacatgg	cagtgaacta	ctgtccagaa	480
cttggtaccg	tattatcgaa	tgaagaagtt	gaaaatggat	tctcaataga	agggggatat	540
cctgtagagc	ggaaaatgct	tcgtcagtgg	attctcaaaa	tcacagcata	tgccgataag	600
ttattagaag	gtctcgatgc	cctagattgg	cccgaaaatg	taaagcagtt	acagaaaaat	660
tggataggga	aatctgaagg	ggctctcgta	acatttcatt	tgacgcaaga	gggcagtcta	720
gaageettea	etaceegeet	agacacttta	ttaggggtga	gtttcttagt	gattgctcct	780
gtacaacaaa	atttagatte	antanca	gaagagcaaa	gagacgaagt gctctgttaa	cacageetat	840
ggggtcttta	caggaaacta	taccaaacac	cccattacag	ggaacctttt	acctatttaa	900 960
atttcagatt	atgtcgtctt	aggetatgge	acaggcgtag	ttatgggagt	cccagcgcat	1020
gacgagagag	atcgagagtt	tgctgaaatg	ttttctcttc	cgattcatga	ggtgattgat	1080
gataacgggg	tttgtattca	tagcaattac	aacgactttt	gtcttaatgg	cttgtctggg	1140
caagaagcta	aagattatgt	aatcaactac	ctggagatgc	gttctctcqq	aagagctaag	1200
actatgtaca	ggctgcgaga	ctggctcttc	tctagacaga	gatattgggg	agagcctatc	1260
cccatcattc	attttgaaga	tggaacgcac	cgtcctttag	aagatgatga	gctgcctctt	1320
getgaagatt	atattgatga	ctategteec	gaaggattcg	gtcagggtcc	tttagcgaag	1380
tatactatac	gggtgcatat	ctacgacgag	aagacaggta	gaccaggatg ttcgtttctg	tagagagact	1440
aactctcagt	taccttagaa	taaaraaaaa	gaaagetatt	ggatgcctgt	rgargeacae	1500 1560
attggaggtg	cagaacacgc	tattetteat	cttctttact	cgagattttg	gcatcgagtc	1620
ttctatgacg	cgggtcttgt	ctcaacacca	gaacctttta	agaaactgat	caaccaggga	1680
cttgtgttag	cctcttcata	ccgaattcct	ggtaagggat	acgtaagcat	agaagacgtt	1740
agggaagaaa	atggaacgtg	gatctcaact	tgtggagaga	ttgtggaagt	tagacaagag	1800
aaaatgtcta	aatcgaaact	caatggtgtg	gatectcagg	ttttgattga	agagtatggt	1860
gcagatgcct	tacgtatgta	cgctatgttt	tcgggaccct	tggataaaaa	taaaacctgg	1920
tccaatgaag	gtgttggggg	gtgccgtcgt	ttcctaaatc	gtttttatga	tttggtgact	1980
tttageagagg	ttcaagatat	agaagaccgt	gacgggctgg	ttctcgctca	caaattggtg	2040
cccaygatta	cagaacatat	tgaaaaaatg	tctttgaata	ccataccgtc	ttcatttatg	2100

graattictiga acgatititte aaagciteca atcagegaa ayttataggat 22160 aaccaccag gratigatea agcagatgg citaataga aytagatga 2220 aaccaccag gratigatea agcagatgg citaataga aggaagtta cittigtitity teaggitiaat gggaagtag aggaagtic citaatgag 2220 aaccaccag gratigatea actagaaa agaaatttat graafaa graafagaa tittigtica aaagaagacci citaagaag agtatitatet titgiticga aggaagtic citaagaga 220 2463 2463 2463 2463 2463 2463 2463 2463							
aaccaccag ggattgatca agcagatgg octoaaatag acgagatta octagttgat 2280 caaactgaa cittligtigt toaggitaat gggagattae actagtgaa tittgaccaaagaaga agaaatttat tigtoctaaa aactagtgaa tittgtocta 2460 tga 2463 2463 2463 2463 2463 2463 2463 2463							2160
aaccaccag ggattgatca agcagatgg octoaaatag acgagatta octagttgat 2280 caaactgaa cittligtigt toaggitaat gggagattae actagtgaa tittgaccaaagaaga agaaatttat tigtoctaaa aactagtgaa tittgtocta 2460 tga 2463 2463 2463 2463 2463 2463 2463 2463	gttcgtgtat	tggagcctat	agctccgcat	atcagcgaag	agttatgggt	tatattggga	2220
aaaqaacptc ctaaaqaaa agutttatt gttectaata aactaggaa ttttgtecta 2400 gagaacgete aaatacgaaa aguttattat gttectaata aactaggaa ttttgteeta 2460 gagaacgete aaatacgaaa agaaatttat gtteetaata aactaggaa ttttgteeta 2460 gagaacgete aaatacgaaa agaaatttat gtteetaata aactaggaa ttttgteeta 2460 teatttygaaaaat aatacgaaa agaaatttat eaatacgaa aattacgaa tetgaggaaata tegagaaata caaaaaggaa tegagaagaa teaaaagaat ggaategte ggtteetaatt gtagaaagaa teaaaagaac agaaatgaa ggaatgtg ggaatgtg ggaaaagacga ggaaaagacga ggaaaagacga gaaacatata ggaatgtg tegagaagaaga gagaaagacga gaaaaagaa aactacaaagaat ggaatgtg ggaaagacga gaaaagacgaaagacgaaagacgaaagacgaaagacgaaagacgac							2280
aagaagottc daaagaaga agtittatet tigtetegaa gidagtige aaagiateta 2460 tga gagaacgott aaatacgaaa agaaatttat giteetaaa actagtgaa tittigteeta 2466 tga  Seq ID 19 tiggagaaaa taatgitegg agaaaattat cittigteeta aaatacgata caatteggaa taatgigaat aggeatagat teagaaatata aattacgata caatteegta taggaagtigt tiggaagaaa teaaaagaca actitigtigete acaaagaga gigtetatti gigaaaaaaa taaaacataa aggaaattat caatacgaat giggaagtig diggaagaatata caatacgaat gigaaagaga gigaagaagaa taaaaaaaaa aaacaaaaa aggaaattga teggaaagaa taaaaaaaaaa aaacaaaaa aggaaattga gigaaagatga gigaaagaaga gigaagaagaagaa taaaaaaaaa aacaaaaaa gigaagaagaa gigaagaagaagaagaagaagaagaagaagaagaagaaga							
gagaacggetc aaatacggaaa agaaatttat gttcctaata aactagtgaa ttttgtccta 2460 2463  Seq ID 19 ttggagaaaa taatggtcgg agaaaattct cgagacattg gagttcttc taaagaagga 60 ctatttgata aattagagat aggcatagct toagatatta caattogtgat taaatgggtct 120 tgtggagaaa tcaaaagaat ctttggtcct actaaagatt gggaatgttg ctgcggaaaa 240 ctaaaagaat gggaatgtc ttggatcgat gggagttga gttactctt 360 tgagaacgt gcggtagaagtgtc tttggaaaaat ctttggtcct actaaagatt gagttcttct aaacaagtc gtcgtgaagat gagtagttg tgggaagggggggggg							
Seq ID 19  ttggagaaaa taatgttegg agaaaattet egagacattg gagttette taaagaagga 60 ctatttgata aattagagat aggeataget teagatatta easttegtga taaatggtet 120 tgtgagaaaa teaaagaac agaaactata aattaeegta egittaaace tgaaaaggge 180 ggtetatttt gtgaaaaaat etttggetet actaaagat gggaattgt etgaaagagga 180 taaaaaaac tgaaaacataa aggaattgte tgegategat gggagttga agttaetett 300 taaaaaaace gegagaaat etaaggaattga egittaetet tgaaaaga agcetegaaga tatggeteat ateggagattga egitteetat tgaaagaac agcetegaa tatggeteat teggaatga egittaetet tgaaaaaaca aacteettaa tgaagaatat gagtattet tgaaaaga gteeteaaaga teeteaaaga gegateteaga atteggaag ttggtagtaag agteeteetagaagacta 420 cacaaaaaac aacteettaa tgaagaata gagtteea egittaeaga gtggggagaa 540 agaatgaagt tagcaaaag tettaaagag egittaeaga atteggaag ttggtatteet tgectaaaga teeteaagag egittaeaga atteggaga atteggagaga teggaatatagaga ggaaagagaga ggaaagagaga ggaaagagaga ggaaaaaa							
teggagaaaa taatgsteeg agaaaattet egagacattg gagttette taaagaagga 60 ctatttugata aattagagat aggetaget teagatatate caatteegta taattggtat 120 tgtggagaaa teagaaagage agaacatata aattagagat gggattgta gtttaaac eggaaaggg gttataaaaa aggaattgte teggagatga gggagttgta gttactett 360 teagatatt gggaatgtte gteggagatga gggatgteet attagetea atteggatga gggagttga gttactett 360 teggaacgt gteggaacg tattggeteat ateggagtatg gggatgtag agttacett 360 teggaacgt gteggaacg tattggeteat ateggagatg cagtteegga ggacgtteet gtagatgte tggaatgat gggagatgga geteggaa gegacgtteet gtagatget ttggaatgac agetteegga gegegtteet gtagatget gtagatgac agetteegga gegegtteet ttgaaagaa ggttgaaga geteggagagegagagagagagagagagagagagagagag		aaacacyaaa	ayaaacccac	guidelaala	aactaytyaa	ttttgteeta	
teggagaaa taatgstegg agaaattet egagacattg gagttettte taaagaagga (12 teggagaaa teaaaagge agaaatata aattacegta egittaaace tgaaaagge (12 teggagaaa teaaaagge agaaagtet) egaatgst gggaatgst etgaaaggge (13 teaaaggat taaaaggat taaaaggat taaaaggat taaaaggat taaaaggat taaaaggat taaaaggat tataaagaat etttegteet a teggattet gggaatgst gegaaagge (13 teggstaaaa agaaatgte teggatega gegattga getacetat gaatgetet teggaaaga gacagaceta taggaatgt et teggaaaga gacagaceta taaaagaat gacagaagaagaagaagaagaagaagaagaagaagaagaa	Lga						2463
teggagaaa taatystegg agaaattet egagacattg gagttettte taaagaagga (12 teggagaaa teaaaagge agaaatata aattacegta egittaaac egaaagge (13 teggagaaa teaaaagge agaaagtet) egaategt gegagatytg gegaaaggge (13 teggagaaga taaaaggat) etetggategta gegagatytg gegaaaggg (13 teggagaagat) etetggettette aaacaagate (14 teggatet) eggagatytg agttactett (13 teggaaagt) etetggaaagt gegaatgte eggagatytg agttactet) (13 teggaaagt) etetggaaagt gegaatgte eteggaaga gacagacata eactaaagat gacagacata agaaatgaag eggatteg eteggaagatga gacagacata etaaagatt gagaagatga gacagacata etaaagaat gacagaagagat etattatta taagagataag gettactatg attgetgaaga gacagacata etaaagaaga gacagacata etagagaaga getatetatg attgetgaaga getggggaagagagagagatgaagaagat etagecaaagag getgagaagaagaagat etagecaaagag (14 tegaaaaagagaagaagaagaagaagaagaagaagaagaag	Com TD 10						
ctatttgata aattagagat aggcatagot beagatatta caatteegta taaattgetet tgggagaaa teaaaaagac agaaactata aattacegta egtttaaace tggaaaggg ggtetatttt gtgaaaaagg ctattgete tgegategat gggaatgttg etgegaaaa cotaaagaat aggaattget tgegategat geggatgttg agttactett tgeatatt teaaaagate gtegtgaaagteegt tegtgatattatt gaagaatgteg tgggatgttat tggaatgte aggtteetat tgeatgatga aggtteetat tgeatgatga egtteetat tgeetatatgatgatgatgatgatgatgatgatgatgatgatga	_						
gydctattit gygaaaaaa cittagotca actaagat gygaagtytg dycggaatgaaaaa cattagotca toggaaagtyt gotgogaaatgaaaaa cattagatgaa toggaatgaaaaa cattagaatgaa gygaatgaa gytactat tytocatatt 360 toaaaagtoc gycgygaacyta ataggattaa tacgagtaag cagtacctat tytocatatt 360 toggaaagty cattatatta tyaagaatat gtagttatty tygaatgaa gyctacgaa gycacacaaaaaaaaa cacttataa tyaagacgaa tactagaa tyttgaagaa gygygaag 540 gacqaactta tygtocataaa acattataa tyaagacgaa gytaatgaa attigaagaa actagaagaa acattataa gyaagagaa gytaatgaa attigaagaa tyttgaagaa gygygyaag 540 gacqaactta tygtotaaaaa gygygygaag cytattaaa acaaaaaat cacgaagag 540 coccaaaga tygattaaaa aatatcoca gtagttacaa attigattaa atcogaaaga 660 agaatgaagt tagcaaaag tottaaaaac attigaggat tigtittoca cacaaaaca cocgaagatga taggatgaagaagaagaagaagaagagagag							
ggtctatttt gtgaaaaaa totttggtcct actaaagatt gggaatgttg ctgcggaaaa 240  tcaaaaaat taaacaacta aggaatgtc gtgaatgta cagttcctat tgtcatatt 300  tcaaaagtc gtcggaacg tatggctcat atggattg cagttcctat tgtccatatt 420  tggtttttca aaacaactca atcacgcatt ggtaatgttc ttggaatgtag aggttcggat 420  ctggaacgtg tcatttatt tgaaggatat gtagttattg accaaggtaa gacagaccta actagaaaaa cacttcttaa tgatggcgaa gctatctatg atttgctaaa gtggggtaag gcatctagaa ttgctgaaag tggttcgaag cgcttcggaag cgtttcgaa accaaagacg tcgttaaaag ggtgggaa gcatctatg atttgctaa atcgaagag cgcaaaag tcgttaaaag tcttaaaaac attgagggat tggtattaaa aaatatcca gtagttccac ctgatctcag ccggagggggggggg							120
tataaaaaaa taaaacataa aggaattgtc tgcgatcgat gcggagttga agttacttt 360 tggtttttca aaacaactc atcacgcatt gggaattgtc tttggaatgac agttcctat 420 ctggaacgtg tcatttatta tgaaggaatat gtagttattg ttggaatgac agcttcggaa ttgttgaaagac gactattata tgaaggaatat gtagttattg accaggataa gacagaccta 480 accagaacgt tcatttatta tgaaggaatat gtagttattg accaggataa gacagaccta 480 gacgctttcg ttgctaaaat gggtggcgaa gctatctatg atttgtgaaa tgggggaag cccggaatgaag tgattataaa aatatccca gtagttcaca ttgttgttaa accagaagat cccggaatggat tggtattaaa aaatatccca gtagttcaca ctgattctcg tcctcttgtt cccggagtgga tggtattaaa aaatatccca gtagttcaca ctgattctacg tcctctttgtt catcgaacgg tggttgttt tgcgacttct ggtttaaaac accagaaggt tattgttgt aatcgtaaca atcgtcttaa agcgatctta cgtttaaaca acccagaaggt tattgttgt aatcgtaaca atcgtcttaa agcgatctta cgtttaaaac acccagaaggt tattgttgt aatagtaaca gtatggttcta aaacgacca ttgaaacct tgaacacgt tgaacacgg caaaaatggaa gtatgcttca gaaacgacca tgaaaaccggac ttgaacacgg caaaaatggaa gtatgcttca gaaacgacca tgaaaacggac ttgaacacgg caaaaatggaa gtatgcttcag attgaaagga ttgaacaagacgg caaaaatggaa gtatgctcta agaacgacca atcaaaggac ggtatcatac accagaaggac ttagaacgacg tatgaacacgac atcaaagacgacgaca agacgacgac accagaaggac accagaagacgac accagaagacgac accagaagacgaca acctggaagac cacaagacacacca accagaagacacacaca	tgtggagaaa	tcaaaaagcc	agaaactata	aattaccgta	cgtttaaacc	tgaaaagggc	180
tegaaaagtec gtegtgaaag tatggeteat ategagttag eagttectat tegaeagtag 420 etggatettea aaacaactec ateacquatt ggtaatgtec ttggaatggaa agetteggat 420 etggaaagtg teattatta tgaagaatat gtagttattg accaagtaa gacagaceta 480 actaaaaaac aacttettaa tgatggegaa gtatetatga atttggtaaa atecggaagag 460 gacgettteg ttgetaaaat ggtggegaa getatetatg atttgettaa atecgaagag 640 etceaaaget tgetaaaaa ggtggegaa getatetatg atttgettaa atecgaagag 640 agaatgaagt tagetaaaaga tettaaaate atttgatgagaa ttgyttega atecgaageg 640 ecettagatg geggtegtt tgegaettet gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaette gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaette gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaettet gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaettet gatgeteea etgateteeg 20 aatgaaaage gattgetea agaagetgtt gatgeteett ttgataaaeg teegaeatgg 720 aatgaaaage getteegtea aagaagetgt tgaaaaceg 20 ettagaaaage gattgetea agaagetgg aaacagaea ttgaaaceg 20 ettagaacage getteegtea aattetta ggaaaaegg 1120 aataatattg ttggteetga attgaagtt aateaatgeg gattgeetaa ggaaatgget 1120 ettagagata tegaaacett tatattaaa agaetaaaag ateaagagaa ggtatgetea 1120 ettagagatet tegaacett tatattaaa agaetaaaag ateagagaa egtteteega 1120 atteagteet etgaacetgt attgatagaa ggaaaagega ttegtataaa ecceetagt 1120 atteagagate tegaacetgt attgatagaa ggaacacaa etteeteetee 1120 etgaagagea aactggaage tatagtetea agagtagae egteteetea 1120 atteagagae actggaage tattgatagaa ggaacacaa etteeteetee 1120 etgaagagea tatggaage tatggaagea eagaagea etgaagea etg	ggtctatttt	gtgaaaaaat	ctttggtcct	actaaagatt	gggaatgttg	ctgcggaaaa	240
tegaaaagtec gtegtgaaag tatggeteat ategagttag eagttectat tegaeagtag 420 etggatettea aaacaactec ateacquatt ggtaatgtec ttggaatggaa agetteggat 420 etggaaagtg teattatta tgaagaatat gtagttattg accaagtaa gacagaceta 480 actaaaaaac aacttettaa tgatggegaa gtatetatga atttggtaaa atecggaagag 460 gacgettteg ttgetaaaat ggtggegaa getatetatg atttgettaa atecgaagag 640 etceaaaget tgetaaaaa ggtggegaa getatetatg atttgettaa atecgaagag 640 agaatgaagt tagetaaaaga tettaaaate atttgatgagaa ttgyttega atecgaageg 640 ecettagatg geggtegtt tgegaettet gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaette gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaette gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaettet gatgeteea etgateteeg teetettyt 780 eetttagatg geggtegtt tgegaettet gatgeteea etgateteeg 20 aatgaaaage gattgetea agaagetgtt gatgeteett ttgataaaeg teegaeatgg 720 aatgaaaage getteegtea aagaagetgt tgaaaaceg 20 ettagaaaage gattgetea agaagetgg aaacagaea ttgaaaceg 20 ettagaacage getteegtea aattetta ggaaaaegg 1120 aataatattg ttggteetga attgaagtt aateaatgeg gattgeetaa ggaaatgget 1120 ettagagata tegaaacett tatattaaa agaetaaaag ateaagagaa ggtatgetea 1120 ettagagatet tegaacett tatattaaa agaetaaaag ateagagaa egtteteega 1120 atteagteet etgaacetgt attgatagaa ggaaaagega ttegtataaa ecceetagt 1120 atteagagate tegaacetgt attgatagaa ggaacacaa etteeteetee 1120 etgaagagea aactggaage tatagtetea agagtagae egteteetea 1120 atteagagae actggaage tattgatagaa ggaacacaa etteeteetee 1120 etgaagagea tatggaage tatggaagea eagaagea etgaagea etg	tataaaaaaa	taaaacataa	aggaattgtc	tgcgatcgat	gcggagttga	agttactctt	300
tggtttttea aacaactcc atcacgcatt ggtaatgttc ttggaatgac agcttcogat 480 actaaaaaac aactcttaa tgatgogcaa tatcgtgaag ttgttgagaa ggtaggcaa gacaacacac aactcttaa tgatgogcaa tatcgtgaag ttgttgagaa gtggggtaag 660 actacaaagct tgcttaaaaac tgggtgggaa gctatctatg atttgtttaa atcagaagat 660 agaatgaagt tgctaaaaac tcttaaaaga cgtttacgca aacaaaaac tcagcaagca 660 agaatgaagt tagccaaacg tcttaaaaac attgagggat ttgtttottc atcaaacac 720 agaatgaagt tagccaaacg tcttaaaatcca gtagttccac ctgatctccg tcctcttgtt 780 cctttaagatg ggggtgttt tgcgactct gatttaaacg atcctaccg ccgtgtaatt 840 aatcgtaaca atcgtcttaa aagacgttt ggtctcttt ttgataacgg tcgacatggt 960 catccagatg ggttctaa ggaacgttt ggtctcttt ttgataacgg tcgacatggt 960 catccgaacg ggttcctaa agaacgacca ttgaaaccc tgtcacatggt 960 catccgacacac gggagctga aaccgacca ttgaaacct tgtcacacac tggaactgg aaaacggac gcttccqca aatctttta ggaaaacggg gttgcacatgg gatagaggg 1140 ttagagctat tcgaaccctt tattataaa agactaaaag atcaaggcag cgtttctaac 2100 gaattaattg ttggtcctga attgaagatg aaccaaagg aggtaggaatgg attggagaatgga gaggacacac agtacattg attgaacacc agtacattga ggaaacgga ggtatcgaa ggaaacgga gaggaacacac agtacactga attgaaga ggtaacgac ccccctagtt 140 gaagagcac aactggaaga cttcgacaga ggtacacac agtacattga ggaaacgac cttcaacggt 150 catccaggac cttcgacactga attgagaa ggtaagacaca ccccctagtt 140 gtagaggaca aactggaaga cttcgaagaa ggtaggaa agacaaatgg cggtacacac ccccctagtt 140 gtagaggacac aactggaaga cttcgacaga agccaaacat cttcctact 150 ctccacagaa agcctgtgc tatacacctg attgaggac caagaagaa agccaaaatg cttcacactatt tcctgaagaa agccaaatggac cttacactatt tcctgaagaa agccaaatggac ggtatcaca agaactacacacacacacacacacacacacacacacacac							360
ctogaacgty teatitatia tyaagaatat gtagttatty acccaggtaa gacagaccta gabacataaaaac aacttetta tyatgogoaa tategtgaag ttyttyagaa gtggggtaag 540 ctocaaagot ttgottaaaat gygtgggcgaa getatetatg atttgottaa atccgaagog 660 ctocaaagot tgottaaaga tettaaaaga getatectatg atttgottaa atccgaagog 660 agaatgaagt tagottaaaga tettaaaaga getatectatg atttgottaa atccgaagog 660 ctocaaagot tgottaaaga tettaaaga getatectae ctgatetocg teotottytt 780 cettagatg geggteyt tgogactet gatttaaaca ctgatetocg teotottytt 780 cettagatg geggteyt tgogactet gatttaaaaa caccagaggt tattgttet 780 cettagatg geggteyt tgogactet gatttaaaaa caccagaggt tattgttet 780 catcogataa atogtetaa aggaatetta cgtttaaaaa caccagaaggt tattgttet 780 catcogataa atogatetaa aggaatetta cgttaaaaaa caccagaaggt tattgttet 780 catcogataa tgagaagotgg aaacgaca ttagaateet tgaaacet tgaaacett gagaateaga gettagaaaaag gattagaagaaaaaga gattagaagaaaaaga gattagaagaaaaaga gattagaagaaaaaga gattagaagaaaaaga gattagaagaaaagaaaaga gattagaagaaaaagaaga catteagaagaa gagaacaaaaga acaagaagaaga tatagateta aggaacaaca atgaagaaga aactagaagaa caagaagaaga taagattta atgaagaaaaga gatagaagaa aactaagaaga caactagaaga caacagaaga taagaagaaga caagaagaaga taagattta atgatgaca caccagaaga tatagagaa aactagaaga caactagaaga caactagaaga caacagaaga gatagagaaaaagaa cagaacaatt tecagaaaaa cagaacaatt tecagaaaaaa cagaacaatt tecagaaaaaa cagaacaaaaaga attaaagaa gacagaaaaagaa tattaacagaaga caacagaaga gatagagaa aactaaagaa tattaacagaa cggatacaa attaaaa gagaataaa agaataaaga cagaacaaaa caccaaaagaaga tatagagaa aacagaaga gatagaaaaa agaataaaga cagaacaaaaaaaaaa							
acteaaaaac aactecttaa tgatgogaa tatogtgaag ttgttgagaa gtggggtaag 600 ctocaaagct tgcttaaaat gggtgggaa gctatctatg atttgcttaa atcogaagat 600 ctocaaagct tgcttaaaag tcttaaaag cgtttacga aaacaaaatc tcagcaagag 660 agaatgaagt tagcaaaag tcttaaaaac attgagggat ttgtttctc atccaaccac 720 coggatgga tggtattaa aaatatacca gtattcaac cfgatctog tcctcttgtt 780 cctttagatg geggtcgttt tgcgacttct gatttaaaac atccgacaaggt tattgttcgc ccgagatgga tggtattaa agagtctta aggtcctctt tgatacagg tcgacatgg 960 catccgaca tgggactga aaaccgacca ttgaaacct tgtatacac tggacgtcg caaaagaag gtttggtccac agaaacggcg gattctat tggaagtctg ttggaagtgg aaaacggaca aaactgacaca ttgaaacgg gattgcacaagg gattgaaaagga gcttctga attgaagtt aacaaggacg gattgaaaaggac ggtttatacc tggacgttct ttgaaatgga gcttctgaaatgga gattgaagaa gattgaaaaaggac ggtttatacc tgaaggacatatatggac gcttctgaaattgaaaaag gagaaaggac ggttaaaaaggac gggagaatgga aaacggacga aaacgacaca agtacggaaggac aattgagga gggaaaggac aggaaaggac atcaaggac attogaagac tataaggacga aggaaaggac aattgaagac gggagaaggac aactgaagac aattgaagac aattgaagac aattgaagac aattgaagac aattgaagac caagaagac aattgaagac ctacaagaa agctgtggcgacgac aactgaagac ctacaagaa agctgtggc tatacctctc aaagaagac ggttaacaa aattgaagac ctacaataga ggaaagacga ttcgtataca ttcgaagac tatacctatt tcctgaagaa aactgaagaa aactgaaga tttgaagaca caatggaaga aactgagaa aactgaaga tattgcgtg tttaaacacg gggaattgaa aaactaaga ttttaagaa agattgaa agaagacga tttaactg agaaatgaga ggtatcaat attcatgaa agaatgaaga tttaagaga tcgaagac ctacaatt tcctgaagaa gagaagacga aactaaga atttaactg agaaatgaaga ggtatacaa attcaagaa aactgaaga tttaagaga caagaaga ggtatcaa attcatgaa agaattaaag tcgatatga tttaactg agaaatgaaga ggtatacaa attcaagaa agaatgaaga ggtatacaa attcaagaa agaatgaaga ggtaagaaga ggtatcaa attcaagaa agaatgaaga ggtaagaaga aaacagaagaa aaacaagaagaagaa aacaagaagaagaagaagaagaagaagaagaagaagaaga	ctggaacgtg	tcatttatta	tgaagaatat	gtagttattg	acccaggtaa	gacagaceta	
gacgottteg ttgctaaaat gggtggggaa gctatctatg atttgctaa atcqaaagat (cocaaagat tgcttaaaaga cyttaaaaga cyttacaacaaact tcagcaagag (600 agaatgaagt tagcaaaag tcttaaaaga cyttaagaga ttgtttette atcaacaca (720 coggagtyga tggtattaaaga tcttaaaata attgagggat ttgtttette atcaacaca (720 coggagtyga tggtattaaaa aaatatccca gtagttccac ctgatctceg tcctcttgtt (780 cotttaagag goggtogttt tggacattet gatttaaaca atcacagaggt tattgttega (940 aatcgtaaca atcgtcttaa agaagctgtt gatgtctett tggaaacaca (940 aatcgtaaca atcgtcttaa agaagctgtt gatgtctett tgcaaacaggt caacaggag caacaaaatgga caacaaatggt gatgctctt tgcaaacagg ttgaatatatg ttggacctga aaatcgttta ggaaaacgg gtttccga attgaagtt tatcaaagag gatgcacat tcgaaacag (940 ttagaagtt tatacaatgag gatgcacat ggaaaatggat (940 ttagagctat tcgaaccct tattattaaa agactaaaag atcaaggag (941 tatacc 1200 atcaagagat tcgaacact gattcaacag gagacccaa aactgttgga ggttcctga attgaagat attggaagaccat aggaacatc agtacttctt aaccgagcac ctacattgca ccgtttagga atcaagagac ctacactgaaga ctacactgt tatacgctga gacaaaatg ccgtgacgat tcgaacagt tcgaacagt ttggaagaccat aacggagac caacaggag caacaaatgg ccgtgagacg ctacactgaaga caacagagag caacaaatgagac caacaatggaagac caacaatacaa caagaagacaca caaggaagacaca caacagaagac caacaatacaa caagaagacaca caagaagacaca caacagaagacaca caacaaaacaacacacac	actaaaaaac	aacttcttaa	tgatgcgcaa	tatcotoaao	ttattaaaaa	ataagateea	
ctccaaagct tgcttaaaga tcttaaagag cgtttacgca aaacaaatc tcagcaagg 660 agaatgaagt tagccaaaag tcttaaaatc attgagggat ttgttcttc atccaccc 720 ccggagtgga tggtattaaa aaatatccca gtagttccac ctgatctcg tcctcttgtt 780 cctttagatg gcggtcgttt tgcgacttct gatttaaacg atcctcaceg ccgtgtaatt 840 aatcgtaaca atcgtcttaa agcgatctta cgtttaaaaac accacgaggg tattgttcgt 900 aatgaaaagc gtatgcttca agaagcgtt gatgtctct ttgataacgg tcgacatggt 960 catccggtca tgggagctgg aaaccgacca ttgaaatcct tgtcagaaat gttaaaggga 1020 aaaaataggac gcttccgtca aaactttta gaaaactgtt tggatactct tggaaagcgt ttgatcatct tggaaatggt 1140 ttagagctat tcgaccctt tattataaa agactaaaag atcaaggcag cgtttaccga 1260 agagtcatta agggacacca agtactctta aggaaccacg aagtttggga cgtttccgaa 1260 agagtcatta agggacacca attgatagaa ggtaaaggca ctcacattgca cgtttagga 1320 attcaagct tcgaacctgt attgatagaa ggtaaagcga tcgttaaca cccctagtt 1340 tgagaggaca aactggaaga tcatcagagag accaaatgg cggtacaagt tcctcacagaa agcttggga aaccagaag agcaaacac cttcctctct 1440 tgagaggaca caccagaagg ttacctact tcctcagaagaa cctcagaaga agcaaacagaa cctagagaga accagaagag ttaccaaga agcaacaagaa ccagagaaga caccagaagag ttagaaacagaa agcaacaagaa agcaacaagaa agcaacaaaga cacagaagag tatagaagaa accagagaaga cacaaagaa agcaacaagaa agcaacaaaga cacagaagag tatagaagaa accagaagag ttaccaaaga agaacaacaagaa agcaacaaaga cacagaaga agcaacaaaga cacagaagag ttaccaaaga agaacaacaagaa agcaacaaga accagaagag ttaccaaaga cacagaagag ttaccaaaga cacagaagag ttaccaaaga agaacaacaaga cacagaagag ttaccaagaa agaacaacaaga cacagaagag ttaccaagaa agaacaacaaga cacagaagag ttacaaagagaaga ttacaagagaa caaatacaga agaacaacaa agaacaacaa cacagaaagaga ttacaagagaa caaacaagaa agaacaacaacaagaa cacaaagaagaga ttaccaaaga agaacaacaacaagaagagaga ttacaacaga agaacaacaacaagaagagagaagaagaagaagaagaaga	gacgettteg	ttactasast	adatadass	actatotata	atttaattaa	ataggaagat	
agaatgaagt tagccaaaag tcttaaaatc attgagggat ttgtttette atccaacac 720 ccggagtgga tggtattaaa aaatatcca gtagttecac ctgatcccg tcctettgtt 780 cctttagatg goggtcgttt tgcgacttet gatttaaaag atctctaccg ccgttaaatt 840 aatcgtaaca atcgtcttaa agcagctgtt gatttaaaaa caccagaggt tattgtcgt 960 catccggtca tgggagctgg aaaccgacca ttgaaaactgt ttgataacgg tcgacatggt 960 catccggtca tgggagctgg aaaccgacca ttgaaaactgt ttgataacgg tgaactggt 1020 aaaaatggac gttccggtaa aaatctttta ggaaaacgg gtttcgtaaa ggaaatggct tcgaaattgt ttggtcctga attgaagtt aatcaaagg gattgcctaa ggaagcacta tcgaacctt tattataaa agactaaaag atcaaggag cgtttctaa gggaacacca gattcaacgg gagatccatt aggaacacca gatcattctt aaccagacac ctacattgca cgttccgaa 1260 agagatcatt aggaacacca gatcattctt aaccgaccac ctacattgca cgttccgaa 1260 attcaagctt tcgaacctg attgatagaa ggtaaagcga ttcgtataac cccctagtt 1380 ttgagaggac aactggaagc catactttt cagaacctg attgatagaa ggtaaagcga tcctcctattt tcgaacgga gaccaaatgg ccggcacgt tcctctatt 1440 ttgagagaa agcctgggc tattccttcg aaagattga ctttaaggata actggaagac aactggaag caaatgtga cttccaagaa ggtagacaca actggaagg caaatggaagacac attcctttcct	gacgeceecg	taattaaaa	tattanaga	getatecatg	accigcicaa	tesesses	
ccggagtgga tggfattaaa aatatacca gtagttcaa ctgatctacg tectettgtt 780 cetttagatg geggtegtt tgcgactet ggttaaaca atcettaaag geggtaaaca atcgtaaaa acggatetta agtgtaaaaaa caccagaggt tattgttegt 900 aatgaaaagc gtatgettaa agcgatetta ttgaaaccet tgtaaaagg ggtagacaaacagaca ttgaaactet tggaaacagg gettecgtea aaaccgacaa ttgaaaggt ttgactacte tggaaagggg 1022 aaaaatgga gettecgtea aaacctttta ggaaaacgg ttgactace tggaaatggt 1140 ttagaacct ttgaaccet ttgaaccet tggaaccet tggaaccet tattaaaa accaaggag gaatgatgat 1140 atcagtetet ttagaaccet tggaaccet tattaaaa agactaaaag accaaggaag cgttecgaa 1260 agaatcatta agggaactec agtacttet aaccgagaaa accaaggaag cgttecgaa agtteggaagga ttagataaa cecetagta 1260 agaatcatta agggaactec agtacttet aaccgagaac ctacattgaa cectattga cgttaggagac tectecaggaa aacctgaaga tattgatgaga gacaaaatgg ccgtgacgt tectetate 1320 atcagacgga aaccgaaactg ctgtataaca cecctagtt 1330 atcacaagaa agcctgaaga tattgatggct cagacaacaat cttecttect 1440 gtagaggaac aactggaaga tattectteg aaagaatgga ctttagataa accggaaga cacaacaagaa cactggaaga ctacactgaag agccaaaatg ctttaagatt tattatactg 1500 atggaagaacaagaa tttgaggga ttaaaagaa catggaagaa catggaagaa catggaagaa aaccgagaaga agccaaata tttgagaaca cccaaggaagg gtatggatta ttgatggtt tectaaagaa catggaagaa tttggagaacaacaacaagaa catggaagaa catggaagaa aaccaagaaga ggtatgaaagaa agcataaaaga agcataaaaga agcatacaa aggaggaaga aaccaaaga cggaaatgaa agcaaaaaa agcagtataa aggagaatta tttaaagaa 1700 atggacaaaa accaagaaga ggtatgaaga aaccaaaaga cggaaatgaa agcataaaaga aggatataa aggagaaga agcaaaata ttgaagaa catgaagaa agcaaaaaaa cagagaaga agcaaaaaaaaa							
actittagata geggteqtti tgegactica egittaaaaga atcictaceg cegtgtaatt aategtaaca ategtettaa ageagatetta egittaaaaga caccagaggt tattigticegt aategaagaaga gatagettea agaagetigti gatgetetti tigataaaga gegagagagagagagagagagagagagagagaga							
aategaaaag gtatgettea agagetgtt gatgetettt tigataacgg tegacaggt 960 cateeggtea tygagetgg aaacegacea ttgaaatett tigataacgg tegacatggt 960 cateeggtea tygagetgg aaacegacea ttgaaateet tygacaate ttgacagtet 1020 aaaaatagge getteegtea aaateetteta ggaaaatggt tegacaate gtaaaggeg 1140 ggaateatta ttggteetga attgaaggtt aateaagg gattgeetaa ggaaatgget 1140 attegtetge etaagaatat tattataaa agactaaaag ateaaggeag egttetaaga 1200 attegtget etaaagaata gatteaagga ggageeceag aagttggga egttetegaa 1220 gagateatta aggacatee agtacettet aacegagea etacattgea eegtteegga 1320 atteaagget tegaacetgt attgatagaa ggaaaagga tegaaggeg egttetegaa 1320 gagateatta aggacacea eategaagg gaceaaatgg eegtgeeaggt teetetatee teeteaggaage tatteaagget aaagtetta atgatggget eegtgegaeggt teeteeteet 1440 gtagagea aactggaagge tatteetteg aaagatatga eetaaggeaga eetacetattt teetgaagaa eatggaagga eatgegagaa acatggaaga eatggaagaa eatggaagga eatgeggeggaaaategaa agataaaaa ggtgagagaa aaatgaaga tetgegtatga tattgeggge tetaeetatt teetgaagaa eatggaggaa aaactaagaa tattgaggge tetaeetatt teetgaagaa eatggaggaa aaactaagaa tattgaggge tetaeetaga agataaaa gattgaaa agattaaag ggaatagaa teggatata ttgagacaac eeggaacaacat etteettee aaagaaagaag eeggateeta teggagatea tegaagatga teegaagaaga ggatteat tegaagaa agataagaag teggatteaga agatagataa ggaattgat teetaaagaa 1620 gaaacaaata tegaagaaga eeggateeta ggaattgata gagaattga teetaaagaa 1620 ateaagaaga eeggateeta gataagaaga ggaattga agatataga agatataaga ggaattga agaatagaga eataacaagaa eatacaagaa eegaataagaaga eegaataagaaga eegaataagaaga eegaataagaaga eegaataagaagaaga eegaataagaaga eegaataagaaga eegaataagaaga eatacaagaa eatacaagaagaaga eatacaacaa eagaagaagaagaagaagaagaagaagaagaagaagaaga							
aatgaaaagg gtatgcttca agaaggtgtt gatgctcttt ttgataacgg tcgacatggt 1020 aaaaatggac gcttccgtca aaactcttta ggaaaacgtg ttgactactc tggacgttct 1080 gtaattattg ttggtcctga attgaagttt aaacaagg gattgcatact tggacgttct 1080 ttagagctat tcgaaccctt tattataaa agactaaaag attgacagg gttgactac ggaaactggt tcgacacgt tcgacacgt tcgacacgt tatatcaa agaccaaaaggac actcattgga cgttatacc 1200 gagatcatta agggacatcc agtacttctt gaaacggac cacaatggac cgttatacac 1260 gagatcatta agggacatcc attgatagaa ggtaaaagga ttcgataca cccctagtt 1380 attcaaggtt tcgaacctgt attgatagaa ggtaaagga tcgaacaca cccctagtt 1380 gtagaggagac actcgagaagg taaagtttta atgatggcc cagacaacat cttcctcct 1440 gtagaaggaaa agctgtggc tattccttcg aaaggaaatgga cattgagaaga cacaatggagaa agctgtggc tattccttcg aaaggagaa aaactaagat atttaaagat 1560 atggaagatc ctacctattt tcctgaagaa catggagaaa aaactaagat atttaaagat 1520 gaaatcgaag tattgcgtgc tttaaataac gggggataca attcatgaaa agacaaattg cttcgtgatg aaacaggacg cggaatccat attcatgaaa agactgggat ttgaagaagga 20 gaaaacgag tattgagag cggaatccat attcatgaaa agattaaagt gcgtattgat 1740 ggacaaatta ttgagacaac cccaaggaagg gatacaat attcatgaa agattaaagt gcgtattgat 1740 ggacaaatta ttgagacaac cccaaggaagg gataccaa attcatgaa agattaaagt gcgtattaga 1740 ggacaaatta ttgagacaac cccaaggaagg gattecta agaagttata tttacaagac 1860 ctaggtttc aaaattacag catgccaagt ggtattcta agaacttaa agatcttaga 1920 tttattcaag ctacaaaagc cgcaatctct atgggattga aggatttat tttacaaggc 1920 tttattcaag ctacaaaagc cgcaatctct atgggattga aggatttat ttgacactga 2100 gtttccgaac agatttaga aggattgac ggtattgaa ggaattga ctatactga aggattgaga aggaccaaaag 2100 gtttccgaac agtttagag attaatggc aggacacaac cattccaaaa cattagaa 2220 gtttcgaaa gctttagag attaatggc gaacaacaa cattagaaa aaacaaaa 2220 gcgagaaaag tttagccga attaatggc gaacaacaa cattagaaa cagtagaag 2100 gtttcaaacga gtttagaa aggattgac ggaacaacaa catcaggaa aaacaaaaca	cctttagatg	gcggtcgttt	tgcgacttct	gatttaaacg	atctctaccg	ccgtgtaatt	
catcogytca tyggagottg aaaccgacca tygaaacct tygtaqaat tygactact tygacgttct 1080 gtaattatty tygtoctga attgaagtt aacaatgg gtttggctaa ggaaacggg tttgactact tygacgttct 1080 gaaatggct totaagaaaat gatcactatta aggaccacaa agactaaaag atcaaggca gagttcatta agggacacc taatataaa agactaaaag atcaatgga gagttacgta agggacacc taacatgca catctgca coggttagga attgaaggct ttaacgctg ttgaagaacgg ttcgtaaa aggacacaca ttcgaaggta totaagaagaca catcaaggag agcaacaca ttcctcatct ttgaagaga agcetgggg tattoctag agaactagga agcetgggg tattoctcaggaa gacaaatgg coggacacaca ttcctctctc totactcagaa agcetgtggg tattoctcaggaag cataggagagaca catggaggaa aactggagag catactggaga cataggagaca catggaggaa aactggagag cggtatcaa attgaagaa agcetgtggg cataccat attcatgaaa agattaaag tttggagga aactggggg cggtatcaa attgaagaga catggaggaa aactggggg cggtatcaa attgaagaga agcetgggg cggtatcaa attgaagaga agactaaga tttggagaga cacaaatgg ggtatcaaga tttggagaga aactggggg cggtatcaa attgaaggaa aactaggag tttggagaa caaggagag cggtatcaa attcatgaaa agattaaaga gggtatgat ttgatgatgt ttttgggggat ttggacaaatta ttgagacaac cocaggaagg gtattytca acagaattg tttcggagat tttgaagaa gcgtatgaa ggaattagaa ggattagaa ggagattaa ttgaagaat gggtatgaa agcaagaag catacaagag catacaagag catacaaga agcttagaa agcaacaat tttgagaagaa catacaagaa catacaagaa catacaagaa catacaagaa catacaagaa gagattaga agattgaa agagattga agagattga agagattga agagattgga agagattat tyaagacaaca agattgaaa agagattgaga agagattaa agagattga aggattatta tggaacaaaa agattagaga agattacaa agagattgaa agagattgaga agattaacaaaaca agattgaaa agagattaaga aggattaaca agagattaa agaattacaaacaca agattgaaa aggattaaca agagaga gttaacacaa agattgaaa agaattaaga agaattaaga agaattaaga agaattaaga agaattaaga aggattaacaaacacacacacacacacacacacacacaca							900
aaaaatggac gottcogtca aaatetttta ggaaacegtg ttgactactc tggacgttct 1180 gtaattattg ttggtcotga attgaagttt aatcaatgog gattgoctaa ggaaatggct 1140 ttagagctat togaacoctt tattattaaa agactaaaag accaagagag ogtttatacc attogatcd caagaaaat gattcaacga ggagcoccag aagtttggga cgttctogaa 1260 gagatcatta agggacactgt attgatagaa ggtaaaggga ctacattgca ccgtttagga 1260 gagatcatta agggacactgt attgatagaa ggtaaaggga ctacattgca ccgtttagaga 1260 togacaggt ttaacgactgt attgatagaa ggtaaaggga ccaaatgg ccgttcataca occatagtt togaaacctgt attgatagaa ggtaaagagga ccaaatgg ccgtgcacgt tectctatct 1440 gtagaaggaca aactggaagg tattcottcg aaagattga cctacaggaa agcctgtggc tattcottog aaagataggac tctcaaggaa agcctgtggc tattcottog aaagataggac attgagatt attatactg 1560 atggocagat catactattt tcctgaagaa catggaggaa aaactaagat atttaagga 1620 gaaatcgaag tattgogtgc tttaaaataa ggtggattca ttgatgatg ttttcggagat 1680 cgtcgtgatg aaacaggacg cggtatcat attcatgaaa agaattaaagt gggtattgat 1740 ggacaaatta ttgagacaac ccaaggaagg gtattgttca acagaattgt tctcaaagaa 1800 ctcggcttcc aaaattacag catgccaagt ggtatgatag aggacttat tttacaagga cggaactcat attcaagaa ggtaaggtg attcatactgaa ggaaggt tattcotgat 1920 tttattacaag cacaaaagg cggaaccaag gtatggattga aggatgttcg tattcotgat 1920 tttattcaagaa cgctttcaga ggaaggacgt cattcaaaa cggtttcaga 1920 catacaaaag cgctttcaga ggaggaggt cattcaaaa cacaaacacac tgttccgaa 1920 catacacac ggtttcaga aggttgaca gttacaaaa cgtttcaga 2020 cagaacctt agggaggaagg gtattgat gaacaaaca acgaacacac acgttgaaa 2100 gcaaacacac tgttcctgaa 1920 gagagaaagg gttacaggaa gattaatggcg aagaccaaaa acgaacacac acgttgaaa 2220 cagttgagaa ggttacagaa gattaaagga ggacaaacaa acgaacacac acgttgaaa 2220 cagttgagaa ggttacaca aggttacaa aggttagaa ggttacaca ggttttaagag aggatgaca tatacacaca ggacaacaca acgaacacacacacacacaca							960
aaaaatggac gottcogtca aaatetttta ggaaacegtg ttgactactc tggacgttct 1180 gtaattattg ttggtcotga attgaagttt aatcaatgog gattgoctaa ggaaatggct 1140 ttagagctat togaacoctt tattattaaa agactaaaag accaagagag ogtttatacc attogatcd caagaaaat gattcaacga ggagcoccag aagtttggga cgttctogaa 1260 gagatcatta agggacactgt attgatagaa ggtaaaggga ctacattgca ccgtttagga 1260 gagatcatta agggacactgt attgatagaa ggtaaaggga ctacattgca ccgtttagaga 1260 togacaggt ttaacgactgt attgatagaa ggtaaaggga ccaaatgg ccgttcataca occatagtt togaaacctgt attgatagaa ggtaaagagga ccaaatgg ccgtgcacgt tectctatct 1440 gtagaaggaca aactggaagg tattcottcg aaagattga cctacaggaa agcctgtggc tattcottog aaagataggac tctcaaggaa agcctgtggc tattcottog aaagataggac attgagatt attatactg 1560 atggocagat catactattt tcctgaagaa catggaggaa aaactaagat atttaagga 1620 gaaatcgaag tattgogtgc tttaaaataa ggtggattca ttgatgatg ttttcggagat 1680 cgtcgtgatg aaacaggacg cggtatcat attcatgaaa agaattaaagt gggtattgat 1740 ggacaaatta ttgagacaac ccaaggaagg gtattgttca acagaattgt tctcaaagaa 1800 ctcggcttcc aaaattacag catgccaagt ggtatgatag aggacttat tttacaagga cggaactcat attcaagaa ggtaaggtg attcatactgaa ggaaggt tattcotgat 1920 tttattacaag cacaaaagg cggaaccaag gtatggattga aggatgttcg tattcotgat 1920 tttattcaagaa cgctttcaga ggaaggacgt cattcaaaa cggtttcaga 1920 catacaaaag cgctttcaga ggaggaggt cattcaaaa cacaaacacac tgttccgaa 1920 catacacac ggtttcaga aggttgaca gttacaaaa cgtttcaga 2020 cagaacctt agggaggaagg gtattgat gaacaaaca acgaacacac acgttgaaa 2100 gcaaacacac tgttcctgaa 1920 gagagaaagg gttacaggaa gattaatggcg aagaccaaaa acgaacacac acgttgaaa 2220 cagttgagaa ggttacagaa gattaaagga ggacaaacaa acgaacacac acgttgaaa 2220 cagttgagaa ggttacaca aggttacaa aggttagaa ggttacaca ggttttaagag aggatgaca tatacacaca ggacaacaca acgaacacacacacacacaca	catccggtca	tgggagctgg	aaaccgacca	ttgaaatcct	tgtcagaaat	gttaaaggga	1020
ttagagetat tegaaceett tattataaa agaetaaaag ateaaggeag egitetesaa tegaageate tegaaceett tattataaa agaetaaaag ateaaggeag egitetesaa 21260 gagateatta agggeacee agaeteetet aacegageag egitetegaa 12200 atteaageat tegaaceetgi attgatagaa gggacaceag aagitiggga egitetegaa 12200 atteaageat tegaaceetgi attgatagaa gggaaagega teetetaagaa teetetaageet tegaagagee tetaagetgi attgatagaa ggaaaaggga teetetaatee eeetetatee tegaagagea aacegageag aceaaatgg eegiteaget eeetetateet 1380 teetetaaggaa ageetgigge tatteetteg aaagatatga eegiteaggaa eteetetateet 1440 gtagaggea aacetagte eeetetaaggaa ageetgigge tatteetteg aaagatatga eeteetaateet 1440 gtagaggea ageetaatgg eegiteageage eeteetateet 1440 gtagaggea ageetaatgg eegiteageage eeteetateet 1440 gtagaggeaga eacetattet eeeteetgaagaaggaateegagagagagaategagagaga	aaaaatggac	gcttccgtca	aaatctttta	ggaaaacgtg	ttgactactc	tggacgttct	1080
ttagagetat tegaaccett tattattaaa agactaaaag atcaaggacg egttetace attegttetg daagacaate gatecaacga gagacecaa aagtttggga egttetegaa 1260 gagatcatta agggacatec agtacttett aaccgageac etcactttgea eccttatgga 1320 atteaagett tegaacctgt attgatagaa gggaaagega etcactattgea eccetagtt 1380 tegaagegacget ttaacgetga ettegaagga gaceaaatgg ecgtgaaget tectetatet 1440 gtagaggaa aactggaage tatteetteg aaagatatga ettetagagat etteetatet 1500 atggeagat etaectatt teetgaagaa eatggaggaa aactggaaga ettegaagaa eatggaggaa ettegaagaa eatggaggagaate ettegaagaa eatggaggaa eatggaggagaate ettegaagaa eatggaggaa aactggagga eatggaggaagaatega ettegaagaa eatggaggaa eatggaggaagaategaagaagaagaagaagaagaagaagaagaagaagaagaa	gtaattattg	ttggtcctga	attgaagttt	aatcaatqcq	gattgcctaa	ggaaatggct	1140
attechtety chaagaaaat gatteaacga gagacccag aagtttgga cgttetegaa 1220 gagateatta agggacatec agtacttett aacegageac ctacattgea cegtttagga 1320 strongaged ttegaactgt attgatagaa ggtaaagega ttegtataca ceccetagtt 1380 tgcgcagegt ttaacgetga cttegagaag gaccaaatgg cegtgacgt tectetatet 1440 gtagaaggaa aactggaage taaagtttta atgatgget caggacaacat cttectteet 1500 tecteaggaa agcetgtgge tatteetteg aaagatatga ctttaggat atttaattactg 1560 atgggaaategaag tattgegge tttaaataac ggtgggaaategaag tattgegge tttaaataac ggtgggatea ttggtgat atttaattactg 1560 atgggaaategaag tattgggge tttaaataac ggtgggatea ttggtgat atttaaggat 1680 cgtcgtgatg aaacaggacg cggtatecat atteatgaaa agattaaag ggtattgat 1740 ggacaaatta ttgagacaac cccaggaagg gattgttea acgaaattgt tteetagaga 1800 ctcggettec aaaattacag catggcaagt aggtattaa ggtgagttta tttacagtgc 1860 tataagaag teggtttaga agctactgta cgttettag atgacctaa agatettgga 1920 tttattecaag ctacaaaagc cgcaatetet atgggattga aggatgtteg tattectgat 1920 gttteetgaa cataacacat aggtgeed cattecaaaa agatettgga 2100 gttteegaac agcttteaga ggtgggaccaag gtaaaggttg ctatteegaa aggtggagegt cattecaaaa agttetegaa 2200 gttteegaac agcttteaga ggtgggaccaag gtaaaacaacaacacacacacact tgtteetgat gagtggacca aggatgatea ggtaaaacacacacacacacacacacacacacacacacac	ttagagctat	tcgaaccctt	tattattaaa	agactaaaag	atcaaggcag	cotttatacc	1200
gagatcatta agggacatcc agtacttctt aacgagcac ctacattgca ccccctagtt 1380 tygcgaagct tegaacctgt attgatagaa ggtaaagcga ttcgtataca ccccctagtt 1380 tygcgaagct tegaacctgt attgatagaa ggtaaagcga ccccccagtt 1440 gtagaggcac aactggaagc taaagtttta atgatggctc cagacaacat cttccttcct 1500 atggcaagct ctacctattt tcctgaagaa catggaggaa aaactgaaga tattgatgg tttcatacagaa catggaaga cattggaag cattgagagaatcgaag tattgcgtgc tttaaataac ggtggattca ttgatgatgt tttcggagat 1620 atggcagat aaacaggacg cggtatccat attcatgaaa agattaagt tttcaggatt atttactgg 1680 cgtcgtgatg aaacaggacg cggtatccat attcatgaaa ggtagtagtg tttcagagat tttaaagat 1740 ggacaaatta ttgaagacaac cccaggaagg gtattgttca acagaattgt tcctaaagaa 1800 ctcggcttcc aaaatacaagc catgccaaga aagctactga agggatataa gtgagcttaa agatcttgga 1860 tataaagaag tcggtttaaga agctactga cgtttcttag atggacttaa agatcttgga 1920 tttattcaag ctacaaaaagc cgcaatctct atgggattga aggatgttcg tattcctgat 1980 atcaaaagac acattcaaagacg cgtatccataa agatggttcg cattccaaaa cattactgaa 2040 gtttccgaac actttcaga agggagggt cattccaaaa cattatagtat ttggaactgaa 2100 gtttccgaac agctttcaga aggattgatca aggcaaataa gcaaacaaca cattaggaca 2220 attactcaga aggttaggag attaatggcg aggacaataa tggaacatta tggaacatca agactgaaca cgtttagaga attactcca aggcaaacaacacacacacacacacacacacacaca							
tgcgcaggt tbaacgctga cttcgacgga gaccaaatgg ccgtgcacgt tcctctatct 1440 gtagaggcac aactggaagc taaagtttta atgatggcc cagtgcacgt tcctctatct 1440 tcctcaggaa agcctgtggc tattccttcg aaagatatga ctttaggat atttactgg aaggagac caccatttt tcctgaagaa catggaggaa aactaagat atttaaagat 1620 gaaaatcgaag tattgcgtgc tttaaataac ggtggatca tttaggatgt tttcggagat 1680 cgtcgtgatg aaacaggacg cggtatcat attatgaaa ggctattgat ttgggagat 1680 ggacaaatta ttgagacaac cccaggaagg gtattgtca acagaattgt tcctaaagaa 1620 ggacaaatta ttgagacaac cccaggaagg gtattgtca acagaattgt tcctaaagaa 1620 ggacaaatta ttgagacaac cccaggaagg gtattgtca acagaattgt tcctaaagaa 1620 ggacaaatta ttgagacaac cccaggaagg gtattgtca acagaattgt tcctaaagaa 1680 ctcggcttcc aaaattacag catgccaagt agcgtataa gtgagcttat tttacagtgc 1860 tataagaaag tcggtttaga agctactga cgtttcttag atgagcttaa aggatttgga 1920 tttattcaag ctacaaaagc cgcaatctct atgggatga aggatgttg tattcctgat 1980 atcaagggt tattactga aggaggggt cattccaaaa ctattagtat ttggactga 2040 gattgatggga tcattactga aggggaggt cattccaaaa ctattagtat ttggactgaa 2100 gtttccgaac agctttcaga tgtgattet ggagcccgag gtaataaac ccagttggaa 2210 gtttcggaac agtttcagga attaatggcg agagccaaacg gagcaattat tggactgaa 2220 cagttgggag cgttacggag attaatggcg agagccaaacg gagcaattat tgaatctcca 2280 attactcga actttagaga aggattgac gagccaaacg gagcaattat tgaatctcca 2280 attactcga actttagaga aggattgac ataacacgg gagcaattat tgaatctcca 2280 attactgag gtttagcca agacgtgatc ataacacag gtgataaaag tcctacacgg 2240 gcgagaaaag gtttagcca tacagctcta aaaactgcga actccggaat ctaacacagt 2400 agacttgtag acgtagcca agacgtgatc tacagaaa agagttgag tctgacaagg 1260 cacattgaga tttctgcaat aggtcaaagt tctgaagaac ccattgatga tcggctaat 2260 cacattgaga tttctgcaat aggtcaaagt tctgaagaac ccattgatga tcggctaat 2260 cacattgaga tttctgcaat aggtcataagg ccaaaggac caattgatga tcggcgatat 2260 cacattgaga tttctgcat tacattaacg tgcgaaagtc caaggaggc ttgtggcaa 2270 attgctgcc aggtactat aggtcataga ggaactgaa accaggaag caattgatga tggtgatat 2260 attgctgcc aggtactat aggtgatga aggtgaaaggtc aaaaggaaggaggt tacacacag aggtgaaaaggac acaattgaga 2280 a							
tgcgcagcgt taacgctga cttcgacgga gaccaaatg ccgtgcacgt tcctcatct ftgagaggcac aactggaagc tattccttcg aaagatttta atgatggctc cagacaacac cttcctcct 1500 atggcagat ctacctattt tcctgaagaa catggaggaa aactgaagg tattgcgtg tttaaataac ggtggattca ttgatgatg ttttcggagat 1620 gaaatcgaag tattgcgtgc tttaaataac ggtggattca ttgatgatgt tttcggagat 1620 gaaatcgaag tattgcgtgc tttaaataac ggtggattca ttgatgatgt tttcggagat 1620 ggacaaatta ttgagacaac cccaggaagg gtattgtca ttgatgatgt tttcggagat 1740 ggacaaatta ttgagacaac cccaggaagg gtattgtca acagaattgt tcctaaagaa 1800 ctcggcttcc aaaattacag catgccaagt aggatgtaa aggatgtcg tattcctga 1920 tttattcaag ctacaaaaagc cgcaatctct atgggattga aggatgtcg tattcctgat 1920 tttattcaag ctacaaaaagc cgcaatctct atgggattga aggatgtcg tattcctgat 1920 tttattcaag tcattactga agggagggt cattccaaa ctattagtat ttggacgta 1920 tttatccgaac agctttcaag agggagggggatgaaagggttg ctatccgaa agaccaacac 2040 gtttccgaac agctttcaag tgccctctat gttgaaatta gcaaacaaac acgtagcaag 1100 gtttccgaac agctttcaaga aggattgac aggaccaacac gagcaaacac ccagttggaa 2220 cagttggaa gtttagcga tacagctcta aggaccaacac gagcaaacac gagcaaacac accagtggaag gtttaggag accaacac gagcaaacac gagcaaacac gagcaaacac accagtagcaa aggatggac accaatcac ctcacacagt 2400 agaccttgaa accttagaga ttctgaac agacgtgac attaccgaa aggacaacac gagcaaacac gagcacaacac accacacgc tacacacacacacacacacacacacacacacacacaca							
gtagaggcac aactggaagc taatecttes aaagtatata attactete 1560 atggcagatc ctacctattt teetgaaga cattgaggagaa aactgagagt attacettes gagaggaaa aactgaagt atttaaagat 1620 gaaategaag tattgeetge tttaaataac ggtggagtea ttgatgaggat ttteaggat 1680 egtegtgatg aaacaggaeg eggtatecat atteatgaaa agattaaagt gegtattgat 1740 ggacaaatta ttgagacaac eecaggaagg gtattgttea aagattaaagt gegtattgat 1740 ggacaaatta ttgagacaac eecaggaagg gtattgttea aagattaaagt gegtattgat 1740 ggacaaatta ttgagacaac eecaggaagg gtattgttea aagattaaagt gegtattgat 1740 ggacaaatta ttgagacaac eeggetataa aggetataa gtgaggttat tttacagtge 1860 tataagaaag teggtttaga agetactgta eggttettag atgaeettaa agatettgga 1920 tttatteaag eecaaage egeaateete gataaggttg etatteetgat 1980 ateaaagage teattactga agggggggggggggggggggggggggggggg					_		
tcctcaggaa agcctgtggc tattccttcg aaagatatga ctttaggatt atattatctg atgcagatc ctacctattt tcctgaagaa catggaggaa aaactaagat atttaaggat 1620 gaaatcgaag tattgcgtgc tttaaataac ggtggattca ttgatgatgt tttcggagat 1740 ggacaaatta ttgagacaac cccaggaagg gtattgttca acagaattgt tcctaaagaa 1800 ctcggcttcc aaaattacag catgccaagt aagcgtataa gtgagcttat tttacagtgc 1860 tataagaaag tcggtttaga agctactgta cgtttcttag atgaccttaa agatctaaggac cgcaatctct atgggattga aggatgtcg tattattcaag ctacaaaagc cgcaatctct atgggattga aggatgtcg tattcctgat 1920 atcaagagtc atatcctcaa agatgcctac gataaggttg ctatcgtcaa aaaacaatat 2040 gatgatggga tcattactga aggggaggct cattccaaaa ctattagtat ttggactgaa 2100 gtttccgaac agctttcaga tgccctctat gttgaaatta gcaaacaac acgttgaaa 2220 cattactctga aggttgggag attaatggcg aggcaaacag ggacaataat tgaactcca 2280 attacttcga acttaaggag attaatggcg aggcaaacag ggacaataat tgaactcca 2280 aggagaaaag gtttagcca aggatgtcga aggacataat tcctgaa 2400 agattgtgag acttaaggaa aggattgaca gtttagaga attactcga aggacataat tcctgaacacttgtag acgtagcaca aggacgtgat attaccgaa aagattgtgag acattatggag attactcca aggacgtgat attaccgaa aagattgtgag accattgtag acgtagcca agacgtgaca aaaactagcg actccggata cttaacacgt 2400 agacttgtag acgtagcca agacgtgatc attaccgaa aagattgcgg tacgtaaatt 2460 cacattgaga ttcctgcaat aggtcaggt tctgaagaac tcttgcctc taaagaacgt 2520 accattgaga gtactgtagc tacattaacg tcagagaagac tcttgcctc taaagatcgt 2520 accattgaga gtactgtacc caactccgta caagcagaag caattgatga tcgcacactt 2580 gctcaatcgg gtagttacc caactccgta caagcagaag caattgatga tcgcgacactt 2580 gctcaatcgg gtagttacc caactccgta caagcagaag caattgaga tcgccactt 2580 gctcaatcgg gtagttacc caactccgta caagcagaag caattgaga tcgccactt 2580 gctcaatcgg gtagttacc caactccgta caagcagaag caattgaga tcgccacct 2580 gctcaatcgg gtagttacc caactccgta caagcagaag caattgaga tcgccacct 2580 gctcaatcgg gtagttacc caactccgta caagcagaag caattgaga tcgcacact 2580 gctcaatcgg gtagttacc caactccgta caagcagaag caattgaga tcgcacact 2580 gctcaatcgg gtagttacc caactccgta aggacactga caatcatga tggtgatact 2580 ggagacatta caattgaga 2500 gctcacacag agg							
atggcagatc ctacctattt tectgaagaa catggaggaa aaactaagat atttaaggat 1620 gaaategaag tattgetgge tttaaataac ggtggattea ttgatgatgt ttteggagat 1740 ggacaaatta ttgagacac cggatecat atteatgaaa agattaaagt gegtattgat 1740 ggacaaatta ttgagacac cecaggaagg gtattgtea acagaattgt tectaaagaa 1800 eteggettee aaaattacag catgecaagt aagegtataa ggtgagettat tttacagtge 1860 tttatteaag etacaaaage cgcaatetet atgggattga aggattgat atateetgaa agateeteta agatettgga 1920 tttatteaag etacaaaage cgcaatetet atgggattga aggattgteg tatteetgga 1920 gttteegaac atateetea agatgeetae gataaggtg etatteetgaa 2040 gatgatggga teattactga aggagggegt cattecaaaa etattagtat ttggactgaa 2100 gttteegaac agettteaga tgeeetetat ggtgaaatta ttgaactetaa 22040 gatgatgggag etataetgag tgeeetetat ggtgaaatta ttggactgaa 2200 gttteegaac agettteega tgeeetetat ggageeegag gtaataaate ceagtggaaa 2220 cagttgggag egttaegagg attaatggeg aageeaaacg gageaattat tgaateteea 2280 gagagaaaag gtttageega ataatggeg agaeaaacg gageaattat tgaateteea 2400 gegagaaaag gtttageega tacageteta aaaactgeeg acteeageg tacagtgga acteeatee etacaeagg 2400 gegagaaaag gtttageega tacageteta aaaactgeeg acteeageg tacagtgga 2220 gagaattgaa gttetegaat aggteaagte tataeacegaa aagattggg tacgtaaat 2460 gagacaatta agatetgte tacagtaga tetgaagaag tetgagaagat etacaacaag gtgataaaag tegactaete 2520 geteaategg gtagtgaaet caaacteegta caageagaaag caattgatgg tgaagaagte tacaeteega 2520 ggtgaaaatta agateegte tacaattaaeg tgegaaagte caattgagaa teggetgate 2580 ggggggtattg etgegaagat etgaagaaga 2700 tgttaeggee teaatttage taatggaga etcaettgga tgggtgaage 2700 tgttaecaet agetgateg ggaacetega agetgatae caattggea tggggggatt 2820 ggggggtattg etgaacetega agetgatgaa ggtetaete etgaaaggae ttggateeta 2820 ggggggtattg etgaacae agetgaagag 2700 tgttaeacae agetgatagaa agetgaaga ggtetaete 2820 gagatgate tacaataag 2940 aagggggtatt tacaattaag aggetgatea 2940 aagggggtatt tacaattaag aggetgatea 2940 aagggggtatt agaetgatag aggetgateet tacaatgag aggetgateet 2880 getgaacea agetgaagaagaa aggetgaaagaagaagaagaagaagaagaagaagaagaagaaga	grayayycac	aaccygaagc	Ladagettea	atgatggete	cagacaacac	CLECCLECCE	
gaaatcgaag tattgcgtgc tttaaataac ggtggattca ttgatgatgt tttcggagat 1740 gagacaaatta ttgagacaac cccaggaagg gtattgttca acagaattgt tcctaaaggaa 1740 gagacaaatta ttgagacaac cccaggaagg gtattgttca acagaattgt tcctaaaggaa 1800 ctcggcttcc aaaattacag catgccaagt aagcgtataa ggtagcttat tttacagtgc 1860 tataagaaag tcggtttaga agctactgta cgtttcttag atgaccttaa agatcttgga 1920 tttattcaag ctacaaaagc cgcaatctct atgggattga aggatgttcg tattcctgat 1980 atcaagaggtc atatactga aggtggattga aggatgttcg tattcctgat 1980 atcaagaggtc atatactga aggatgctac gataaggttg ctattcctgat 1980 atcaagaggtc atatactga aggatgctac gataaggttg ctattcctgat 1980 atcaagatggt cattacagaa agctttcaga aggatggacggt cattccaaaa ctattagtat ttggacctgaa 2040 gtttccgaac agctttcaga tggccccatat gttgaaatta ggcaaacaac acgtagcaag 2160 cagttgggag cgttacgagg attaatggcg aagccaaacg gagcaattat tggatctca 2280 attactcga actttagaga aggattgaca gtttagagt accccatctc ctcaacaggt 2340 gcgagaaaag gtttagccga tacagctca agactgagca acccaggaa accccaggaa gtttagcag aggatgac attaccgaa aagattgggg tcattacgga 2460 agacattgag gtactgac aggatgatc tatacagaac acagtaggaac caacttgaga tttctgaaaggt tcatacacag gtgataaaagg tcggacaatta agattcgttc tacattaacg tggaaagac ctccggagt ttggcaagt 2520 atctatggac gtactgtac caactccgta caactccga acctcggat tggagaacatta agattcgtc tacattaacg tggaaagac ctctggagg ttggtgaag ctactgtgg ggaacattg ctggaaagtc caactccgga ttgggaaagt ttggagaacatta agattcgtc tacattaacg tggaaagtc caattgga tggggagacg ttgggaaag 2700 tgttacggcc tcaattagc tggaacctga accagtaa accagtaga accagtaga gtccaactag gggaggatt tacattaga aggtgatgaa ggtcgaactc caattaga aggtgatgaa ggtcgaactc caattagc aggtgatga aggtgatgaa ggtcgaactc caattaga accagtaga ggatgatact caattaga accagtaga accagtaga caatcttgg caattgggaaca ttggatact 2820 gggggatt tacattaga aggtgatgaa ggtcgaactc caattaga accagtaga ggtcaactc caattaga aggtgatgaa ggtcgaactc taatgagaac ttggaacaca accagtaga accagtaga ggtcaacaca acaatcttg cttgaataag aggtgatgaca aggtgatact caattaga aggtgatact caattaga aggtgatgaa ggtcgaacaca accagtaga accagaaga ttgaacacaa accagaagattg tgaacacaa accaatcaca	ceeceaggaa	ageetgtgge	tatteetteg	aaagatatga	ctttaggatt	atattatetg	
cgtcgtgatg aaacaggacg cggtatccat attcatgaaa agattaaagt gcgtattgat 1740 ggacaaatta ttgagacaac cccaggaagg gtattgtca acagaattgt tcctaaagaa 1800 ctcggcttcc aaaattacag catgccaagt aagcgtataa gtgagcttat tttacagtgc 1860 tataagaaag tcggtttaga agctactgta cgtttcttag atgaccttaa agatcttgga 1920 tttattcaag ctacaaaagc cgcaatctct atgggattga aggatgttcg tattcctgat 1980 atcaagagtc atatcctaa agatgccac gataaggttg ctatcgtcaa aaaacaatat 2040 gatgatggga tcattactga agggggacgt cattccaaaa ctattagtat ttggactgaa 2100 gtttccgaac agctttcaga tgccctcat gttgaaatta gcaaacaaac acgtagcaag 2160 cataacccct tgttcctgat gattgattct ggagccaagg gtaataaatc ccagttggaa 2220 cagtgggag cgttacggag attaatggcg aaggcaataat tgaatctcca 2280 gcgagaaaag gtttagcag aggatgaca acttcagga acttagaga aggatgaca aggatgaca actccagga acttagaga aggatgaca tctaaacagg gtgataaaaggacaatta agatcggta tacaattaaga aggatgaca tataccaga gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgacc caactccgta caagcagaag caattgatga tgccggtatt 2520 atcatcgcc tacaattaaga agatcggaa ctcattggaa tctattagaca gtgatgaca agtagacatta agatcgtc tacattaaca tgcgaaagac caattgatga tgccggtatt 2640 attgctgcc tacaattaaga agacacaga accaagaagac caattgatga tgccggtatt 2760 attgctgcc agtcgattg tgttctggga accaggaa accaggaagac tctattggaa ggagggaggacatat caattaga aggaggagacatata caataggaaca ttgtgaaaag ttgtcaacaca 2820 ggggggatatg ctgcacgtc ttcaactcac gagaattata cgaatagga agttcacca 2820 ggggggatatg ctacacgt tgttctcaa ggaacactca aggcagaacacaagacacaagaacacacacacacaca							
ggacaaatta ttgagacaac cccaggaagg gtattgttca acagaattgt tcctaaagaa 1800 ctcggcttcc aaaattacag catgccaagt aagcgtataa gtgagcttat tttacagtgc 1860 tataagaaag tcggtttaga agctactgt cgtttcttag atgaccttaa agatcttgga 1920 ttattcaag ctacaaaagc cgcaatctct atgggattga aggatgttcg tattcctgat 1980 atcaagaggt atatcctaa agatgcctac gataaggttg ctatcgcaa aaaacaatat 2040 gatgatggga tcattactga aggggagggt cattccaaaa ctattagtat ttggactgaa 2100 gtttccgaac agctttcaga tgccctctat gtgaaatta gcaaacaac acgtagcaag 2160 cataacccct tgttcctgat gattgattct ggagcccgag gtaataaatc ccagttgaaa 2220 cagttgggag cgttacgagg attaatggcg aggacaacag gagcaattat tgaatctcca 2280 gcgagaaaag gtttagagag attaatggcg aggacaacgg gagcaattat tgaatctcca 2280 gcgagaaaag gtttagagag attaacgcca agacgtgac attaccggaa accccggata ctcaaccggt 2400 agacttgtag acgtagcca aggctgatc attaccgaaa aagattgggg tacgttaaat 2460 agacttgaga ttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atctatgga gtgatgtact caactccgta caaccacgg gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caactagaga ctcattgaga ttcgacaag 2700 tgttacggc tcaatttagc taatggtaga ctcattggca accaacgggggt ttggtgatt 2760 attgctgct aggtcacgt ttcaactcct gagaattg ccaattggt 2700 tgttacggc tacattgg ggaacctga acctaggtaa accaactgg gtgtggatg 2700 tgttacggc tacattgg ggaacctga acctaggtaa accaactgg gtgtggaac gtgtggtat 2760 attgctgct aggtcaagt tgttctgggg acctagga acctaggtaa accaactgg gtgtggatt 2760 attgctgct aggtcacgt tgttctgggg aggctgtact caattggga accaacac aggaggggt ttcaactca aggtcaaga ggtcgtacc caattggta tggtatctta 2820 gggggtattg ctcacgt gggggatatg aggtcaaga ggtcgtacc caattggga accaacga gtctacacac agtcaacac aggcaagac tgttcaacac agtcaacac aggcaagaccac aggcaagagact tacatggga aggcaagagact tacaacacac aggcaagaccacac aggacacacac aggaacacacac							1680
ctcggcttcc aaaattacag catgccaagt aagcgtataa gtgagcttat tttacagtgc 1920 tataagaaag tcggtttaga agctactgta cgtttcttag atgaccttaa agatcttgga 1920 tttattcaag ctacaaaagc cgcaatctct atgggattga aggatgttcg tattcctgat 1980 atcaagaggt atatcctaa agatgcctac gataaggttg ctattcgaa aaacaatat 2040 gatgatggga tcattactga aggggagggt cattccaaaa ctattagtat ttggactgaa 2100 gtttccgaac agctttcaga tgccctctat gttgaaatta gcaaacaaac acgtagcaag 2160 cataacccct tgttcctgat gattgattct ggagcccgag gtaataaatc ccagttgaaa 2220 cagttgggag cgttacgagg attaatggcg aagccaaacg gagcaattat tgaatctcca 2280 attacttcga actttagaga aggattgaca gttttagagt actccatctc ctcacacggt 2340 gcgagaaaag gtttagcca agacgtgatc attaccgaa aagattgcgg tacgttgaat 2460 agacttgtag acgtagcca agacgtgatc attaccgaa aagattgcgg tacgttaaat 2460 agacttgag tttctgcaat aggtcaaggt tatacaccag gtgataaaag tcgactactt 2520 atcattgga tttctgcaat aggtcaaggt tatacaccag gtgataaaag tcgactactt 2520 gctcaatcgg gtgatgtact caactccgta caagcagaag ctctgagaag ttggacaagtt caactccgta caagcagaag ctcagtgat tggacaagtt tacaaccag gtgataaaag tcgactactt 2640 gagacaatta agattcgtc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgct aggtcgtg tgttctgggg caagaagtc ctcgcggagt tgttggtatt 2760 attgctgct aggtcgtg tgttctgggg caagaagtc ctcattggc tgggtgaagc tgttggtatt 2880 gggggtattg ctgcacgt tgttctgggg caagaaggtc ctcaatggt tggtataaag 2940 aaggggggtt tacattaga aagcctagag ggtattcctg tcaatggg gtattcacac agtcaaga aggtcaagaa accaatcttg ctaaaaagctg cttgttgtgt acggaaactcc tgtttccaa ggacaaagaa tcgcagaag ttgaacacac agtgaaaagtcg aggtgaaaatt acaatggga agtcacacac aggacactacac aggacaagaagaac tcgaatagga aggagaaatta aggtcaagaa aagcctagag gtattcctg tgaacacaga aggagaggaaattcc tcaatggga aggaggaaattcc tcaatggga aggagaattatc tcaattgga aggagagaa aggaggagaaaagaagaagaagaaga	cgtcgtgatg	aaacaggacg	cggtatccat	attcatgaaa	agattaaagt	gcgtattgat	1740
tataagaaag teggtttaga agetaetgta egtttettag atgacettaa agatettgga 1920 tttatteag etacaaaage egeaatetet atgggattga aggatgtteg tatteetgat 1980 ateaagagte atateeteaa agatgeetae gataaggttg etategtaa aaaacaatat 2040 gatgatggga teatteetga aggggaggg catteeaaaa etattagtat ttggaetgaa 2100 gttteegaae agettteaga tgeeetetat gttgaaatta geaaacaaaa acgtageaag 2160 cataaceet tgtteetgat gatgattet ggageeegag gtaataaate eegatgeaag 2220 cagttgggag egttaegagg attaatggeg aageeaaaeg gageaattat tgaateteea 2280 attaettega actttagaga aggattgaea gttttagagt acteeatete eteacaeggt 2340 gegagaaaag gtttageega tacageteta aaaactgeeg acteeggata ettaacaegt 2400 agaettggag attaettega aegtageeaa aggetgate attaeegaaa aggattgegg tacettgaga teetatggae tateaaggt tetgaagaae teettgeetet taaagategt 2520 ateatggae gtaetgtage tgaagatgte tateaaceag gtggataaaag teggetaate 2580 geteaategg gtgatgtaet eaaeteegta eaageagaae eattggggg taggetgate 2640 gagaeaatta agattegtte tacattaaeg tgeggaaagte etegeggagt teggetgate 2640 gagaeaatta agattegtte tacattaaeg tgeggaaagte etegeggagt ttgtgeaaag 2700 tgttaeggee teaatttage taatggtaga eteattggea tgggggaagte etegeggagt tgttggtatt 2760 attgetgete agtegattgg ggaacetegga acteagttaa eaateaggae gtteeaceta 2820 gggggtattg etgetaegte tgttettggg eaagaaggte acaateagg agteeacet 2820 gggggtattg etgetaegte tgttettggg eaagaaggte acaateagg agteeacet 2820 gggggtattg aggaacete ggggggaagae tgttgataet 2880 ettetaacea agteeacea aggetaagaa ggtegtaete teaaateggta agggaaceteg aggeggaacete teaaateaga aggeegtaete teaaaagae tggaaaatt 2880 ettetaacea agteeacea aggeetaaga ggtegtaete teaaaaggag aggaaaate aggaaaate teaaaagaeteg 3000 ettetaacea agteeacea aggeetagaa aggeegaaa teggaaagae tgaaaaate 2940 aaggaggett acaatagga aggaaceagag gtatteeetg tagaacaaga aggeaaaate tgaaaaate 2940 aaggaggaett tacatggtga aaggeaceaagaa teggaaagae tgaaaaaagaa aagaetaaa aggaaaatet 2820 ggaaaate aggaaaate 2820 ggaaaate aggaaaate aggaaaate 2820	ggacaaatta	ttgagacaac	cccaggaagg	gtattgttca	acagaattgt	tcctaaagaa	1800
tataagaaag teggtttaga agetaetgta egtttettag atgacettaa agatettgga 1920 tttatteag etacaaaage egeaatetet atgggattga aggatgtteg tatteetgat 1980 ateaagagte atateeteaa agatgeetae gataaggttg etategtaa aaaacaatat 2040 gatgatggga teatteetga aggggaggg catteeaaaa etattagtat ttggaetgaa 2100 gttteegaae agettteaga tgeeetetat gttgaaatta geaaacaaaa acgtageaag 2160 cataaceet tgtteetgat gatgattet ggageeegag gtaataaate eegatgeaag 2220 cagttgggag egttaegagg attaatggeg aageeaaaeg gageaattat tgaateteea 2280 attaettega actttagaga aggattgaea gttttagagt acteeatete eteacaeggt 2340 gegagaaaag gtttageega tacageteta aaaactgeeg acteeggata ettaacaegt 2400 agaettggag attaettega aegtageeaa aggetgate attaeegaaa aggattgegg tacettgaga teetatggae tateaaggt tetgaagaae teettgeetet taaagategt 2520 ateatggae gtaetgtage tgaagatgte tateaaceag gtggataaaag teggetaate 2580 geteaategg gtgatgtaet eaaeteegta eaageagaae eattggggg taggetgate 2640 gagaeaatta agattegtte tacattaaeg tgeggaaagte etegeggagt teggetgate 2640 gagaeaatta agattegtte tacattaaeg tgeggaaagte etegeggagt ttgtgeaaag 2700 tgttaeggee teaatttage taatggtaga eteattggea tgggggaagte etegeggagt tgttggtatt 2760 attgetgete agtegattgg ggaacetegga acteagttaa eaateaggae gtteeaceta 2820 gggggtattg etgetaegte tgttettggg eaagaaggte acaateagg agteeacet 2820 gggggtattg etgetaegte tgttettggg eaagaaggte acaateagg agteeacet 2820 gggggtattg aggaacete ggggggaagae tgttgataet 2880 ettetaacea agteeacea aggetaagaa ggtegtaete teaaateggta agggaaceteg aggeggaacete teaaateaga aggeegtaete teaaaagae tggaaaatt 2880 ettetaacea agteeacea aggeetaaga ggtegtaete teaaaaggag aggaaaate aggaaaate teaaaagaeteg 3000 ettetaacea agteeacea aggeetagaa aggeegaaa teggaaagae tgaaaaate 2940 aaggaggett acaatagga aggaaceagag gtatteeetg tagaacaaga aggeaaaate tgaaaaate 2940 aaggaggaett tacatggtga aaggeaceaagaa teggaaagae tgaaaaaagaa aagaetaaa aggaaaatet 2820 ggaaaate aggaaaate 2820 ggaaaate aggaaaate aggaaaate 2820	ctcggcttcc	aaaattacag	catgccaagt	aagcgtataa	gtgagcttat	tttacagtgc	1860
tttattcaag ctacaaaagc cgcaatctct atgggattga aggatgttcg tattcctgat 2040 atcaagagtc atatcctcaa agatgcctac gataaggttg ctatcgtcaa aaaacaatat 2040 gatgatggga tcattactga aggggagcgt cattccaaaa ctattagtat ttggactgaa 2100 gtttccgaac agctttcaga tgccctctat gttgaaatta gcaaacaaac acgtagcaag 2160 cataacccct tgttcctgat gattgattct ggagcccgag gtaataaatc ccagttggaaa 2220 cagttgggag cgttacgagg attaatggcg aagccaaacg gagcaattat tgaatctcca 2280 attacttcga actttagaga aggattgaca gttttagagt actccatctc ctcacacggt 2340 gcgagaaaag gtttagcca agacgtgatc attaccgaa acgtagccag 2400 agacttgtag acgtagcca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atctatggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt 2640 gagacaatta agattcgtc tacattaacg tgcgaaagtc ctcgggagt ttgtgcaaag 2700 tgttacggc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctcc agtcgattgg ggaacctgga ggaacctgga cacatcgg accatcgg ggaggatttg ctgcaccta ggagtatta cggatagta ctggatacta cgaatagtga tggtatctta 2880 ggggggtattg ctgcaccgt ttcaactccc gagattatta cgaatagtga tggtatctta 2880 ggggggatttg ctgcacctc ggagtatta cgaatagtga tggtatctta 2880 ggggggatttg ctgcacctc tcaactccc gagattatta cgaatagtga tggtatctta 2880 ggggggattt cacatgag acccagag gtattctacag agggggact tacatgtga aggggagct tacatagag aggggatt tacatgtga aggggagaacctgga gtattcccg caagaaggtc ctcaatcttg cttgaaataag 2940 attgttgcac aggaactcc aggaactcc tcaatctgg attgtactta 2880 cttgttgctg acggaactcc tgtttctcaa ggacaagag ttcaactagg attgaaaatc 3060 cttgttgctg acggaactcc tgtttctcaa ggacaagaac tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctaga acaagaact ttgaactacac 3120 aatattccta tcatttgcga taagcctaga acaagaact ttgaactacac 3120 aatattccta tcatttgcga taagccaagaac acaaggacttg ttgaactacac 3120 aatatcctacaagaagaacttg ggaacaagaac acaagaactta ttgaactacac 3120	tataagaaag	tcggtttaga	agctactgta	cgtttcttag	atgaccttaa	agatcttgga	1920
atcaagagtc atatecteaa agatgeetae gataaggttg etategteaa aaaacaatat 2040 gatgatggga teattactga aggggagegt cattecaaaa etattagtat ttggactgaa 2100 gttteegaae agettteaga tgeeetetat gatgaaatta geaaacaaae aegtageaag 2160 cataaeeeet tgtteetgat gattgattet ggageeegag gtaataaate eeagttgaaa 2220 cagttgggag egtataegagg attaatggeg aageeeaaaeg gageeaatta tgaateteea 2280 attaettega aetttagaga aggattgaea gtttagagt eeteateee eteaeaeggt 2340 gegagaaaag gtttageega taeageteta aaaaetgeeg aeteeeggata ettaaeaegt 2400 agaettgtag aegtageeea aggegagate attaeeeggaa aegattgegg taegttaaat 2460 cacattgaga tteetgeaat aggteaaggt tetgaagaae tettgeetee taaagategt 2520 ateatgga gtgatgaee eaaeteegga etaeateegg gtgataaaag tegaetaett 2580 geteaategg gtgatgatee eaaeteegga etaeatgaga eteatgaga tgeeggagt tggagaaaetee taeaeteeggaggggagg	tttattcaag	ctacaaaagc	cgcaatctct	atgggattga	aggatgttcg	tattcctgat	1980
gatgatggga tcattactga aggggagggt cattccaaaa ctattagtat ttggactgaa 2100 gtttccgaac agctttcaga tgccctctat gttgaaatta gcaaacaaac acgtagcaag 2160 cataacccct tgttcctgat gattgattct ggagcccgag gtaataaatc ccagttgaaa 2220 cagttgggag cgttacgagg attaatggcg aagccaaacg gagcaattat tgaatctcca 2280 attacttcga actttagaga aggattgaca gttttagagt actccatctc ctcacacggt 2340 gcgagaaaag gtttagccga tacagctcta aaaactgccg actccggata cttaacacgt 2400 agacttgtag acgtagccca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga ttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atcattagga gtgatgtact caactccgta caagcagaag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgcggtatt 2640 gagacaatta agattcgttc tacaattaacg tgcgaaagtc ctcgggagt ttgtgcaaag 2700 tgttacggcc taatttagc tacattaacg tgcgaaagtc ctcagtggag ttgtggaag 2700 tgttacggcc tacattgg ggaacctgga actcattggca tgggggagt tgggagagct ttcaactcct gagattatta cgaatagtga tggtatctta 2820 gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctcatggt tgttctggg caagaaggtc acattggct ctcaattggc atcattggc acagaaggtc ttcaaactcgg accattggt aggtgaaaatt 3000 ctttcaacca agcggaactcc tgtttctcaa ggacaagaag ttgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaagttgt gaacaagaac acaggacttg ttgaacacag 3240	atcaagagtc	atatcctcaa	agatgcctac	gataaggttg	ctatcqtcaa	aaaacaatat	2040
gtttccgaac agctttcaga tgccctctat gttgaaatta gcaaacaac acgtagcaag cataacccct tgttcctgat gattgattct ggagcccgag gtaataaatc ccagttgaaa 2220 cagttggag cgttacgag attaatggcg aagccaaacg gagcaattat tgaatctcca 2280 attacttcga actttagaga aggattgaca gttttagagt actccatctc ctcacacggt 2340 gcgagaaaag gtttagccga tacagctcta aaaactgccg actccggata cttaacacgt 2400 agacttgtag acgtagcca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atcattggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgcggatt 2640 gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattata cgaatagtga tggtatctta 2880 ggctacactg atcccgtgt tgttctggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacattaga aggcctagag gtatttcctg tagaacatgg aggtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaacacac 3120 aatattccta tcatttgcg taacaagaac acaaggacttg ttgaacaca 3240	gatgatggga	tcattactga	aggggagcgt	cattccaaaa	ctattagtat	ttggactgaa	
cataaccct tgttcctgat gattgattct ggagcccgag gtaataaatc ccagttgaaa 2220 cagttggag cgttacgag attaatggcg aagccaaacg gagcaattat tgaatctcca 2280 attacttcga actttagaga aggattgaca gttttagagt actccatctc ctcacacggt 2340 gcgagaaaag gtttagccga tacagctcta aaaactgccg actccggata cttaacacgt 2400 agacttgtag acgtagccca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atcattggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgcggatt 2640 gagacaatta agattcgtt tacattaacg tgcgaaagtc ctcgcgggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttgcaacg 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattata cgaatagtga tggtatctta 2880 gtctacatgg atccccgtgt tgttctggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacattaga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttccaa ggacaaagaa tcgcagaagt tgaacaca 3120 aatattccta tcatttgcg taacaagaac acaggacttg ttgaacaca 3240	gtttccgaac	agettteaga	tgccctctat	gttgaaatta	gcaaacaaac	acgtagcaag	
cagttgggag cgttacgag attaatggcg aagccaaacg gagcaattat tgaatctcca 2280 attacttcga actttagaga aggattgaca gttttagagt actccatctc ctcacacggt 2340 gcgagaaaag gtttagccga tacagctcta aaaactgccg actccggata cttaacacgt 2400 agacttgtag acgtagccca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atctatggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt 2640 gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggatattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atcccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgtag aggtgatgaa ggtcgtactc tcaatggta tgaacacac 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttccaa ggacaaagaa tcgcagaagt tgatcaccac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3240	cataacccct	tattactat	gattgattct	gaageeegaa	graataaatg	ccadttgaaa	
attacttcga actttagaga aggattgaca gttttagagt actccatctc ctcacacggt gcgagaaaag gtttagccga tacagctcta aaaactgccg actccggata cttaacacgt 2400 agacttgtag acgtagccca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atctatggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt 2640 gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 ggggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgtgt aggtgatgaa ggtcgtactc tcaatggta tgaacacac 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttccaa ggacaaagaa tcgcagaagt tgatcacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt tgtgaacaca 3240							
gcgagaaaag gtttagccga tacagctcta aaaactgccg actccggata cttaacacgt 2400 agacttgtag acgtagcca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atctatggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt 2640 gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgtgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgatcacca 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt tgtgaacaag 3240	attacttcca	actttacaga	accautggcg	attttagagt	agcaaccac	atasasaat	
agacttgtag acgtagccca agacgtgatc attaccgaaa aagattgcgg tacgttaaat 2460 cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atctatggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt 2640 gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgtgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 cttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgatcacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt tgtgaacaag 3240	accaccega	atttagaga	tagaccyaca	gcccagagc	actecatete	ctcacacggt	
cacattgaga tttctgcaat aggtcaaggt tctgaagaac tcttgcctct taaagatcgt 2520 atctatggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt 2580 gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt 2640 gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt tgtgaacaag 3240							
atctatggac gtactgtagc tgaagatgtc tatcaaccag gtgataaaag tcgactactt gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt 2640 gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtgcaaag 2700 tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 cttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt tgtgaacaag 3240							
gctcaatcgg gtgatgtact caactccgta caagcagaag caattgatga tgccggtatt gagacaatta agattcgttc tacattaacg tgcgaaagtc ctcgcggagt ttgtggcaaag tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta ggggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt tgtgaacaag 3240 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaacaag 3240							
gagacaatta agattegtte tacattaaeg tgcgaaagte etegeggagt ttgtgeaaag 2700 tgttaeggee teaatttage taatggtaga eteattggea tgggtgaage tgttggtatt 2760 attgetgete agtegattgg ggaacetgga acteagttaa caatgagaae gtteeaceta 2820 gggggtattg etgetaegte tteaacteet gagattatta egaatagtga tggtatetta 2880 gtetacatgg ateteeggtg tgttetgggg caagaaggte acaatettgt ettgaataag 2940 aagggagett tacatgttgt aggtgatgaa ggtegtaete teaatgagat taaaaagetg 3000 etteaacea agtetataga aageetagag gtattteetg tagaactagg agtgaaaatt 3060 ettgttgetg aeggaactee tgttteteaa ggacaaagaa tegeagaagt tgaactacac 3120 aatatteeta teatttgega taageetgge tttattaaat atgaagattt tgtgaacaag 3240 ateteetaeag_agaaagttgt gaacaagaac acaggaettg ttgaacttat tgtgaacaag 3240	atctatggac	gtactgtagc	tgaagatgtc	tatcaaccag	gtgataaaag	tcgactactt	2580
tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaaccag 3240	gctcaatcgg	gtgatgtact	caactccgta	caagcagaag	caattgatga	tgccggtatt	2640
tgttacggcc tcaatttagc taatggtaga ctcattggca tgggtgaagc tgttggtatt 2760 attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta 2820 gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaaccag 3240	gagacaatta	agattcgttc	tacattaacg	tgcgaaagtc	ctcgcggagt	ttgtgcaaag	2700
attgctgctc agtcgattgg ggaacctgga actcagttaa caatgagaac gttccaccta ggggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaacaag 3240	tgttacggcc	tcaatttagc	taatggtaga	ctcattggca	tgggtgaagc	tgttggtatt	2760
gggggtattg ctgctacgtc ttcaactcct gagattatta cgaatagtga tggtatctta 2880 gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaaacag 3240	attgctgctc	agtcgattgg	ggaacctgga	actcaqttaa	caatgagaac	gttccaccta	
gtctacatgg atctccgtgt tgttctgggg caagaaggtc acaatcttgt cttgaataag 2940 aagggagctt tacatgttgt aggtgatgaa ggtcgtactc tcaatgagta taaaaagctg 3000 ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaaacag 3240	gggggtattg	ctgctacqtc	ttcaactcct	gagattatta	cqaatagtga	tggtatctta	
aagggagett tacatgttgt aggtgatgaa ggtegtacte teaatgagta taaaaagetg 3000 ettecaacea agtetataga aageetagag gtattteetg tagaactagg agtgaaaatt 3060 ettgttgetg aeggaactee tgttteteaa ggacaaagaa tegeagaagt tgaactacae 3120 aatatteeta teatttgega taageetgge tttattaaat atgaagattt ggttgaggga 3180 atetetacag_agaaagttgt gaacaagaac acaggaettg ttgaacttat tgtgaaacag 3240	gtctacatog	atctccatat	tattetaaaa	caagaaggte	acaatcttot	cttgaataag	
ctttcaacca agtctataga aagcctagag gtatttcctg tagaactagg agtgaaaatt 3060 cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaaacag 3240	aagggaggtt	tacatottot	aggtgatgas	gatcateata	tcaatgagte	taaaaaaata	
cttgttgctg acggaactcc tgtttctcaa ggacaaagaa tcgcagaagt tgaactacac 3120 aatattccta tcatttgcga taagcctggc tttattaaat atgaagattt ggttgaggga 3180 atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaaacag 3240	ctttcaacca	agtotatage	aageetagaa	grattteete	tagaagtag	autuaaaatt	
aatatteeta teatttgega taageettge tttattaaat atgaagattt ggttgaggga 3180 atetetacag_agaaagttgt gaacaagaac acaggaettg ttgaacttat tgtgaaacag 3240	cttattacta	acconsists	tatttatas	gracecourg	tagaactagg	tanataan	
atctctacag_agaaagttgt gaacaagaac acaggacttg ttgaacttat tgtgaaacag 3240	aatattaata	trattta	to a contract	yyacaaayaa	cogcagaagt	Lydaccacac	
caccgagggg agttacatcc tcagattgct atctatgatg atgctgactt gtcagaactt 3300	atotatoca	araaaret	caageetgge	LCCACCAAAC	acgaagattt	ggttgaggga	
oaccyayyyy ayrtacatcc tcagattgct atctatgatg atgctgactt gtcagaactt 3300	anderser-	-ayaaayttgt	gaacaagaac	acaggacttg	regaacttat	rgrgaaacag	
	caccyagggg	agreacated	tcagattgct	atctatgatg	argergaett	grcagaactt	3300

gicggaacet	atgcgattcc	ttcaggagcg	actacetecg	tagaagaagg	acaacgggtt	3360
gatccaggta	tgttgttagc	tagacttcct	cgcggagcta	tcaaaacaaa	agatattact	3420
	ctcgtgttgc					3480
atcgccaaaa	ttgatggtgt	tgttgacttc	aaaggaattc	aaaagaacaa	acgtattctt	3540
gttgtctgtg	atgaaatgac	aggtatggaa	qaaqaacatc	tgattccatt	aaccaaacat	3600
						3660
	aacgtggaga					
gttcctcatg	aaatcctaga	aatttgcgga	gttcgtgaac	ttcagaagta	cctqqtaaat	3720
	aagtttaccg					3780
attgttcgtc	agatgttaca	aaaagtacga	attactgacc	caggtgatac	gactctgctc	3840
tttqqcqaaq	acgtgaataa	gaaagagttt	tatgaagaaa	atcotcotac	спаапапапас	3900
aataataaa	anget anna		****	******	**-**	
	cageteaage					3960
acggaatcgt	ttatatcagc	agcttctttc	caagacacaa	ctcgagtctt	aacaqatqca	4020
	gcaaaaccga					4080
atgattcctg	gtggtacagg	ctttgaaacg	cataagcgta	ttaagcagta	tctagaaaaa	4140
gaacaagaag	atctcgtttt	tgattttgtt	agtgaaacag	agtgtgtttg	ttaa	4194
, ,		J J	5-5	-3-3-33		
Seq ID 20						
atggatacac	agtcctctat	aggtaacgaa	gaatggggta	ttacaaaaaa	ctctateatt	60
tctgggatgg	ccttaggtaa	agtattttt	ttgggaacat	cccccttgca	tgttcgtgag	120
ctgactctac	ctcaagaaga	agtcgaacat	gaaatacatc	ottattataa	agetttgaat	180
	ctgatatcgt					240
gaggtttcct	ctatcctaca	agcacacttg	gagattatga	aagaccctct	ccttacggag	300
gaggtggtga	atactatccg	taamataat	3333544434	225254555	+++++	
gaggeggeea	acaccacccy	Laayyattyt	aaaaacycay	aatatytett	cccccagec	360
atgggtaaaa	tagaagagtc	gttaacagca	gtccgcggga	tgccttctgt	tgtagatcgt	420
	tccatgatat					480
	gagaatctga					540
gaagtcgcca	gtgctaactc	tqcctatatc	cgagggtttg	tctcattagt	gggaggaggg	600
	cagctatcgt					660
gaggagcttt	ggaacatcgc	aaagcgatat	aatggcaagt	tagtcttaat	cgacggttat	720
	taatctttaa					780
cttteegtgg	ttgcccatac	ctctcagaga	ctagtaagaa	agtecetaca	cccgattgtt	840
tcttcgcatg	caggcagtga	taaggacgta	gaagatctat	tagagaactt	ccctcaaacc	900
	tctttcgttc					960
agagagcaag	tagatcttta	cgagaagctc	gcacgttttc	ctggagattc	gccctcagta	1020
ctqcqcctct	ttgattttgg	tgaagacaaa	cettatecta	gaataaaaaa	taagaaagaa	1080
	gatggttgct					1140
gctaaagcct	ctttgcaagg	ctccataaag	gttctcattc	caggagtgtc	tgacgtttct	1200
	aagtcaaaaa					1260
	gggggactat					1320
cttcctgaat	gtgattttct	ctctataggg	acqaatqacc	ttotccaata	tactttggga	1380
atttagagg	aataaaatat	taataaaaa	atontata	***		
	aatccgctct					1440
cgcatgattc	accatgtact	tcaagctgcg	aagcaaaatc	aggttcctgt	tagcatttgt	1500
	cagggcagct					1560
atatasataa	atataaabat				agoooaagag	
Creceageag	ctatgcctgt	aatcaataga	cttcgcaatc	atategeeet	gctagagttg	1620
aactcctgcc	ttgaaattac	agaagccctt	ttacaagcta	aaacatqctc	tgaagttgaa	1680
	atagaaacaa			•		1716
3	ganacaa	- Caaaaa o Caca	Coubac			1,10
		•				
Seq ID 21						
-	aaaaggatag	tttaggaatg	at anacette	atanasstas	attatata-	60
	uuuuyyatay	LLLayyaalC	grayaayttC	ccyayyataa	yıtatatgga	60
gctcaaacta	tgcgttctag	gaatttttt	tcttggggac	ctgagttgat	gccttatgag	120
gtaatacgag	ctctcgtatg	gattaaaaaa	tatactacta	aggggaatga	agatttagga	180
****			cadacadaca	aggogaacca	agacecagga	
LLLLEGGAET	ccaagcattg	cgatatgatt	gergergerg	ccgatgagat	tttagaggga	240
ggttttgaag	agcatttccc	tttaaaaqtt	tggcagacag	ggaggggagag	acaatctaat	300
atgaatgtgs	atgaggtgat	taccostatt	accettant-	25 3-33-mo	aututta	360
a	acyayycyat	Lycyaattit	gocactoged	accacggagg	ggugutagge	
agtaaggatc	ctatccatcc	taatgatcat	gtgaataagt	cccaatcgtc	caatgatgtt	420
ttccctacao	caatgcatat	cactactata	attagtttaa	aaaataaatr	aattocagot	480
ttamataat-	+an++a	-300300303		anth	Lactorage	
- Layal Cala	LUALLCOOOT	yctagatgct	aaagtggaag	aatttcgtca	tgatgtaaag	540
ataggacgga	03400033350					
tataggageta	cccatcttat	ggatgcqqtq	cctatgacqt	tgggtcaqqa	attttctggt	600
LaLauran	cccatcttat	ggatgcggtg	cctatgacgt	tgggtcagga	attttctggt	
cacageagee	cccatcttat aattgcgtca	ggatgcggtg ctgcttagag	agtatagcat	tttctttagc	tcatttatat	660
gaacttgcga	cccatcttat aattgcgtca ttggagctac	ggatgcggtg ctgcttagag tgctgtaggg	agtatagcat actgggttga	tttctttagc atgttcctga	tcatttatat agggttcgtg	
gaacttgcga	cccatcttat aattgcgtca ttggagctac	ggatgcggtg ctgcttagag tgctgtaggg	agtatagcat actgggttga	tttctttagc atgttcctga	tcatttatat agggttcgtg	660 720
gaacttgcga gaaaagatca	cccatcttat aattgcgtca ttggagctac tccattattt	ggatgcggtg ctgcttagag tgctgtaggg aaggaaggaa	agtatagcat actgggttga acagatgaac	tttctttagc atgttcctga cgtttattcc	tcatttatat agggttcgtg agcttccaat	660 720 780
gaacttgcga gaaaagatca tatttttcag	cccatcttat aattgcgtca ttggagctac tccattattt cactgtcttg	ggatgcggtg ctgcttagag tgctgtaggg aaggaaggaa tcacgatgct	agtatagcat actgggttga acagatgaac ttagtagatg	tttctttagc atgttcctga cgtttattcc cccatgggtc	tcatttatat agggttcgtg agcttccaat tttagcaact	660 720 780 840
gaacttgcga gaaaagatca tatttttcag ttagcatgtg	cccatcttat aattgcgtca ttggagctac tccattattt cactgtcttg ctttaactaa	ggatgcggtg ctgcttagag tgctgtaggg aaggaaggaa tcacgatgct gatagctacg	agtatagcat actgggttga acagatgaac ttagtagatg gatttgagct	tttctttagc atgttcctga cgtttattcc cccatgggtc ttttaggttc	tcatttatat agggttcgtg agcttccaat tttagcaact aggacccagg	660 720 780
gaacttgcga gaaaagatca tatttttcag ttagcatgtg	cccatcttat aattgcgtca ttggagctac tccattattt cactgtcttg ctttaactaa	ggatgcggtg ctgcttagag tgctgtaggg aaggaaggaa tcacgatgct gatagctacg	agtatagcat actgggttga acagatgaac ttagtagatg gatttgagct	tttctttagc atgttcctga cgtttattcc cccatgggtc ttttaggttc	tcatttatat agggttcgtg agcttccaat tttagcaact aggacccagg	660 720 780 840 900
gaacttgcga gaaaagatca tatttttcag ttagcatgtg	cccatcttat aattgcgtca ttggagctac tccattattt cactgtcttg	ggatgcggtg ctgcttagag tgctgtaggg aaggaaggaa tcacgatgct gatagctacg	agtatagcat actgggttga acagatgaac ttagtagatg gatttgagct	tttctttagc atgttcctga cgtttattcc cccatgggtc ttttaggttc	tcatttatat agggttcgtg agcttccaat tttagcaact aggacccagg	660 720 780 840

aaagtcaatc	ctacgcagtg	tgaagctctc	caaatggttt	gtgctcaagt	tettgggaat	1020	
		aggaagtcga				1080	
		gcagtctgtg				1140	
		attaaaagta				1200	
		agctttagct				1260	
		tgaatctata				1320	
		tgatcgttta				1380	
tag	ujuujjuuo o	ogucogoccu	9099000009	agaacacggc	gggaaaccac	1383	
cag						1303	
Seq ID 22							
_	atratrotra	cratatacaa	asttatansa.	tacaaaaaa	ttttaattaa	60	
		ctatatacaa				120	
		agcagggcta				180	
		aagtttattt					
		caactctaaa				240	
		aacattagaa				300	
		aggggtgatc				360	
		cggagcgttt				420	
		aggacttctg				480	
		aatctactta				540	
		tgcgcaagca				600	
		actctctttg				660	
atcatggtat	tttggtatct	gctgcagatt	ttctcatctt	caggaaaccg	agactaa	717	
Seq ID 23							
		acgatcttat				60	
		tgcttttgaa		_		120	
		gtttgaggaa				180	
		tcctgtaaat				240	
		ccaaggaagc				300	
		gcatctttt				360	
		agatactagg				420	
		gaaaatctcc				480	
		aaaaagtggc				540	
		agctatttct				600	
		tttagcattt			-	660	
		tcaaggaatt				720	
		ggcgccgaaa				780	
		taaaggattg				840	
ggctctgccg	caggtgtaaa	cattgttgtg	acccattgtg	gtgatgtaac	tctcactgat	900	
tgtgccactg	gtttagacct	tgaagcttta	cgtctggtta	aagatttttc	tcgtggagga	960	
gctgttttca	ctgctcgcaa	ccatgaagtg	caaaataacc	ttgcaggtgg	aattctatcc	1020	
gttgtaggca	ataaaggagc	tattgttgta	gagaaaaata	gtgctgagaa	gtccaatgga	1080	
ggagcttttg	cttgcggaag	ttttgtttac	agtaacaacg	aaaacaccgc	cttgtggaaa	1140	
gaaaatcaag	cattatcagg	aggagccata	tcctcagcaa	gtgatattga	tattcaaggg	1200	
aactgtagcg	ctattgaatt	ttcaggaaac	cagtctctaa	ttgctcttgg	agagcatata	1260	
gggcttacag	attttgtagg	tggaggagct	ttagctgctc	aagggacgct	taccttaaga	1320	
		tgttaaaaac			-	1380	
gcaggtactg	ttgatctcaa	cgaaacaatt	agcgaagttg	cctttaagca	gaatacagca	1440	
gctctaactg	gaggtgcttt	aagtgcaaat	gataaggtta	taattgcaaa	taactttgga	1500	
gaaattcttt	ttgagcaaaa	cgaagtgagg	aatcacggag	gagccattta	ttgtggatgt	1560	
cgatctaatc	ctaagttaga	acaaaaggat	tctggagaga	acatcaatat	tattggaaac	1620	
tccggagcta	tcactttttt	aaaaaataag	gcttctgttt	tagaagtgat	gacacaagct	1680	
gaagattatg	ctggtggagg	cgctttatgg	gggcataatg	ttcttctaga	ttccaatagt	1740	
		aaatataggt				1800	
		tactgataga				1860	
		ccaatgtctt				1920	
gctcccgtgg	aatcagatgc	ttcatctaca	aataaagacq	agaagagcct	taatgcttgt	1980	
agtcatggag	atcattatcc	tcctaaaact	gtagaagagg	aagtgccacc	ttcattqtta	2040	
		ttcgacagat				2100	
catatcttta	ttacagataa	tacaggaaat	ctgagattct	ctgggaacct	taataataat	2160	
gaagagtett	ctactatcaa	tgatttagct	atcqtaqqaq	gaggtgct.t.t.	gctttctact	2220	
aatgaagtta	atgtttgcag	taaccaaaat	gttgttttt	ctgataacgt	gacttcaaat	2280	
		tattttagct				2340	
		ttcagggaaa				2400	
J J				-52205050			

tcagtaaaca	ttacggacaa	tggctcggca	gtatcattct	ctaaaaatag	aacacgtctt	2460
ggcggtgctg	gagttgcagc	tcctcaaggc	tctgtaacga	tttgtggaaa	tcagggaaac	2520
atagcattta	aagagaactt	tgtttttggc	tctgaaaatc	aaagatcagg	tggaggagct	2580
atcattgcta	actcttctgt	aaatattcag	gataacgcag	gagatatcct	atttqtaaqt	2640
aactctacgg	gatcttatgg	aggtgctatt	tttgtaggat	ctttggttgc	ttctgaaggc	2700
agcaacccac	gaacgcttac	aattacaggc	aacagtgggg	atatcctatt	toctaaaaat	2760
agcacgcaaa	cagccgcttc	tttatcagaa	aaagatteet	ttagtagaga	ggccatctat	2820
acacaaaacc	tcaaaattgt	aaaqaatqca	gggaacgttt	ctttctatgg	caacagaget	2880
cctagtggtg	ctggtgtcca	aattgcagac	ggaggaactg	tttgtttaga	gacttttaga	2940
ggagatatct	tatttgaagg	gaatatcaat	tttgatggga	gtttcaatgc	gattcactta	3000
tgcgggaatg	actcaaaaat	catagagett	tetactatte	запатавава	tattattttc	3060
caagatgcaa	ttacttatga	agagaagaga	attentment	toccanataa	agatgtgagt	3120
cctttaagtg	ccccttcatt	aatttttaac	tccaaccac	agocagacaa	agatgecage	3180
catgaaggga	cgatacggtt	ttctcgaggg	otatotasas	ttcctcacat	taataatata	
caagagggaa	ccttagcttt	atraraaaar	gcacccaaaa	gattagasa	agttageraca	3240
gaaacaggaa	gttctatcgt	attatataaa	grayagette	tacatattt	tanthanan	3300
attastsacs	gtacacatat	tagtagagaa	ggatetatte	ceegtatttt	tgattcccag	3360
attasstts	gtgcgcctct	tactacagaa	aataaagagg	agaetettgt	ttetgeegga	3420
gttggagata	acatgagete	toctacacec	aacaaagaca	aagctgtaga	tactccagta	3480
actottagata	tcataagtat	Laciglagat	LEGICETCAE	ttgttcctga	gcaagacgga	3540
attoritette	ttcctcctga	aactaccacc	cetaagggaa	caaaattaca	ttctaatgcc	3600
tatastasa	agattataga	tectaceaat	grgggatarg	aaaatcatgc	tcttctaagt	3660
celeataaag	atattccatt	aatttetett	aagacagcgg	aaggaatgac	agggacgcct	3720
acagcagatg	cttctctatc	taatataaaa	atagatgtat	ctttaccttc	gatcacacca	3780
gcaacgtatg	gtcacacagg	agtttggtct	gaaagtaaaa	tggaagatgg	aagacttgta	3840
greggregge	aacctacggg	atataagtta	aatcctgaga	agcaaggggc	tctagttttg	3900
aataatctct	ggagtcatta	tacagatett	agagctctta	agcaggagat	ctttgctcat	3960
catacgatag	ctcaaagaat	ggagttagat	ttctcgacaa	atgtctgggg	atcaggatta	4020
ggtgttgttg	aagattgtca	gaacatcgga	gagtttgatg	ggttcaaaca	tcatctcaca	4080
gggtatgccc	taggcttgga	tacacaacta	gttgaagact	tcttaattgg	aggatgtttc	4140
tcacagttct	ttggtaaaac	tgaaagccaa	tcctacaaag	ctaagaacga	tgtgaagagt	4200
tatatgggag	ctgcttatgc	ggggatttta	gcaggtcctt	ggttaataaa	aggagctttt	4260
gtttacggta	atataaacaa	cgatttgact	acagattacg	gtactttagg	tatttcaaca	4320
ggttcatgga	taggaaaagg	gtttatcgca	ggcacaagca	ttgattaccg	ctatattqta	4380
aatcctcgac	ggtttatatc	ggcaatcgta	tccacagtgg	ttccttttqt	agaagccgag	4440,
tatgtccgta	tagatettee	agaaattagc	gaacagggta	aagaggttag	aacqttccaa	4500
aaaactcgtt	ttgagaatgt	cgccattcct	tttqqatttq	ctttagaaca	tocttattco	4560
cgtggctcac	gtgctgaagt	gaacagtgta	cagcttgctt	acqtctttqa	tgtatatcgt	4620
aagggacctg	tctctttgat	tacactcaaq	gatgctgctt	attettegaa	gagttatggg	4680
gtagatattc	cttgtaaagc	ttqqaaqqct	cocttoacca	ataatacgga	atggaattca	4740
tatttaaqta	cgtatttagc	gtttaattat	gaatggagag	aagatetgat	agettatgae	4800
ttcaatggtg	gtatccgtat	tattttctag	55555		agoroacgac	4830
33 3	5					
Seg ID 24			•			
-	agctatggcg	agctacttat	gaagggatgt	atacatttct	tataaataaa	60
ttgctaaagt	tgcgctaccg	tatocapott	gaagggatgt	acacactece	catacates	120
aagcaggggt	gtttgtttct	taccaatcac	attacaaaa	tagaaaatat	tatattagaa	
tatctattt	ggagtcgatt	ccatattcat	cccatagaag	togactetat	atttastsat	180 240
cacattatta	aatggttttt	asatteteta	agatagatta	ctgagtattt	acttattas	
ggtaaagaga	gtaagcgctc	tttagaaggt	agacccatcc	ctatecetta	actigiteee	300
actttaaata	geaagegeee	catageacyt	totacttace	gccacgaaga	agecteaega	360
3220200000	gaggggaaag	ababbabab	Latecticag	gaaggttate	gagaacaggg	420
aaayayyaaa	tegttaatea	gracterger	tatgtgttat	tacatagagt	tatggaatgc	480
aacytggttt	tagtcagagt	ttcaggetta	tgggggagtg	cgttttcgcg	ctataagcag	540
aactetacae	ctaagttagg	ccctgcgttt	aaagaagett	ttcgagcttt	actgcgtcgt	600
gggattttt	ttatgcctaa	aaggtttgta	aaaattactc	tatgtcaagt	agatcatctt	660
tttttaaagc	aatttccaac	aaaacaagac	ctaaatactt	ttttggcttc	ttggtttaat	720
caaggagatg	acaatttgcc	catagaagtt	ccttacgcat	aa		762
_						
Seq ID 25						
atgatcaata	aagaattaga	tattggtatt	ttaggaaaaa	ttgctggggc	tattaaacaa	60
attagtattg	aatccatcca	aaaggcctct	tctggtcatc	caggacttcc	cctaggatgc	120
gcagaacttg	ctgcctattt	atatggttat	gtcctgcggc	aaaatccacg	tgatccccat	180
tggattaata	gggatcggtt	tgtcttgtca	gcaggtcatg	gatctgytct	tctctattct	240
tgtttgcatc	ttgccggatt	tgatgtttcc	ttagaggatc	ttcaggaatt	tegecagett	300
cactoggggaa	~ h ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	tacacactac	gacgaaacta	tgggagtcga	2002200200	360
oucceegaa	cccccqqqca	CCCCGactac			aycaacuaca	anu

	gacagggatt	aggcaatgct	atorantar	agatatatat	~~~~	420
ggcccccgg	basebases	aggeaatget	geeggeatgg	cyclecterat	gaagatgtty	
		aggacatgag				480
ggggatgget	gttttatgga	gggagtcagc	cacgaagttt	gtagctttgc	aggctcttta	540
aatttaaata	atcttgtggt	catctatgac	tacaataatg	ttgttctcga	tggatatctt	600
aatgaaatta	gtgttgagga	tacaaaaaaa	cqttttqaaq	cctatggctg	ggatgtatat	660
gaaattgatg	ggtatgattt	tacccatatt	catgagagat	tetegageat	casacadada	720
caggaacgtc	ctotattact	gattgcacat	agasttatta	atastaatta	caataaaaa	780
ggggggggt	aggetectage	tteteette	acaactacty	gccacggccc	gcccaaggaa	
yyyacaaata	aggeteatgg	ttctccttta	ggagtcgaag	ggactcatga	aacaaaacag	840
ttttggcatc	tccctgaaga	aaagtttttt	gtccctcctg	cagtaaagaa	cttctttgct	900
cataaaatac	aagaagatcg	aaaagcacag	gagcaatggc	tggatgaagt	tcgtgtttgg	960
tcaaaacagt	tcccagaatt	acacgaagaa	ttcqttqcqt	tgacctctca	taagttaggt	1020
aaaaacttag	aatccttggt	gcagagtgta	gaaatgccag	actetatage	taaccaaact	1080
gcttcaaata	aactgatcca	agtattagta	caccacatte	attatttaat	tagaaaataa	1140
gooddaata	accegaceca.	taractagua	cagcacactc	Citatingal	cygayyyccc	
yeayarerr	caayeecaya	tggaacttgg	accgegaacg	agaaagtcat	ccatacgtat	1200
gacttetetg	gaaggaacat	taaatacggc	gttcgtgagt	ttggtatggc	cacaatcatg	1260
aatggtttag	cttatagcca	ggtatttcgt	ccttttggtg	gaacattttt	agttttttct	1320
gactatatgc	gtaatgcaat	tcgcttggcc	gcattatcta	aattaccaqt	catctatcaa	1380
tttacccatq	attctatatt	tgttggagaa	gatggaccta	cocat.caocc	totogaacaa	1440
ttgatgtctt	tacacacaat	ccctggattg	tatotaatac	atcetaccas	tootaatoaa	1500
atteaeaaa	catacattac	aggattanag	an an an are to	geeeegeega	totategaa	
gccagaggag	tarasasas	aggattaaag	cacacaggie	ctacagtcat	racerearea	1560
egacaageat	tgeceacaet	gcctgctgcg	catcggcctt	ttaaagatgg	tgtaggtcgt	1620
ggtgcttata	ttgtcttaaa	agagtcagga	gaaaaaccag	actatactct	cttcgctaca	1680
gggtcagaag	tttctttagc	tctttctgta	gctaaagaac	tcgaacactt	ggataagcaa	1740
gtgcgtgtag	tttctttccc	ttgttgggag	ctttttgaag	ctcaagatgt	ggactacaaa	1800
cagagtattg	taggcggaga	tcttggaatt	cotototota	tagaaggagg	atctgctttg	1860
gaataatata	agtatatogg	atctgaaggt	ttaggtatagg	chatcoatac	attegentes	1920
tagaagaatt	atastastat	atcogaaggo	teterette	ctatggatag	accogyacac	
ccaggageee	ctgatgatgt	atcagaagaa	LgLggcccca	ctacagagca	aatcetteag	1980
aggattctct	eceaatag					1998
					•	
Seq ID 26						
atgtctacca	tgcaaaattg	tccacatttt	ggtgtatgtg	gaggatgctc	gtttcctcag	60
tccaattatt	ctgactcctt	aaagaaaaag	gaagaactcc	ttcatcactt	attemetect	120
ttagttccct	cogatatoat	tgctcctatc	atoccatott	ataaatattt	220200000	
224222466	oggacacgac	bbbbbbbbb	t-t	CLCCCLCLLL	aayayyaaya	180
aacaaaacyy	aatteteett	ttttcaaact	cargaaggag	aaaaaagttt	aggattcatc	240
agecetacaa	aaccaaagaa	aggaattcca	gtgactacat	gtctgcttat	ccatgagcag	300
actatggata	ttttaaaact	cactcgcgaa	tggtgggata	agcacccaga	gcttatggcg	360
tacttccccc	ctaaaaacaa	aggctcgtta	tgcacactca	ccgtccgtac	ggggagcccg	420
cagcaaaact	ttatootoat					
	LLacygugat	cctaacaaca	tcaqqaactc	cagaatatag	ggtaaacgaa	
gcctgtatag	atgaatggaa	agagattete	tcaggaactc	cagaatatag	ggtaaacgaa	480
gcctgtatag	atgaatggaa	agagattctc	ctatcgtctt	ctctaaacat	ggtaaacgaa agcatcgatc	480 540
tattgggaag	atgaatggaa aaaaggtagc	agagattctc tgcacgtggg	ctatcgtctt atttctacat	ctctaaacat attatgaaac	ggtaaacgaa agcatcgatc taaactgcta	480 540 600
tattgggaag tacggagece	atgaatggaa aaaaggtagc cctcgataca	agagattete tgcacgtggg gcaaaaactg	ctatcgtctt atttctacat tccttaccta	ctctaaacat attatgaaac gtgacggtaa	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct	480 540 600 660
tattgggaag tacggagccc tttagtttgc	atgaatggaa aaaaggtagc cctcgataca gtcccagaag	agagattete tgcacgtggg gcaaaaactg tttettecaa	ctatcgtctt atttctacat tccttaccta cctcagatta	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata	480 540 600
tattgggaag tacggagccc tttagtttgc gaaactgcga	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat	agagattete tgeacgtggg gcaaaaactg tttettecaa aaacccegag	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt	480 540 600 660
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat	agagattete tgeacgtggg geaaaaactg tttettecaa aaacccegag tatgetetet	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag	480 540 600 660 720
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat	agagattete tgeacgtggg geaaaaactg tttettecaa aaacccegag tatgetetet	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag	480 540 600 660 720 780 840
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc	agagattete tgcacgtggg gcaaaaactg tttettecaa aaacccegag tatgetetet tteggeteag	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat	480 540 600 660 720 780 840 900
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga	agagattete tgcacgtggg gcaaaaactg tttettecaa aaacccegag tatgetetet tteggeteag agatgegaaa	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa	480 540 600 660 720 780 840 900
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgctetet tteggeteag agatgcgaaa tgatcccca	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa	480 540 600 660 720 780 840 900 960
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc	agagattete tgeacgtggg geaaaaactg tttetteeaa aaacceegag tatgetetet tteggeteag agatgegaaa tgateeeca teeaaaaatt	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag	480 540 600 660 720 780 840 900 960 1020
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgctetet tteggeteag agatgegaaa tgatececca tccaaaaatt aatetetggg	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt	480 540 600 660 720 780 840 900 960
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct	agagattete tgeacgtggg geaaaaactg tttetteeaa aaacceegag tatgetetet tteggeteag agatgegaaa tgateeeca teeaaaaatt	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt	480 540 600 660 720 780 840 900 960 1020
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgctetet tteggeteag agatgegaaa tgatececca tccaaaaatt aatetetggg	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt	480 540 600 660 720 780 840 900 960 1020 1080
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgctetet tteggeteag agatgegaaa tgatececca tccaaaaatt aatetetggg	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt	480 540 600 660 720 780 840 900 960 1020 1080 1140
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgctetet tteggeteag agatgegaaa tgatececca tccaaaaatt aatetetggg	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt	480 540 600 660 720 780 840 900 960 1020 1080 1140
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag Seq ID 27	atgaatggaa aaaaggtagc cctegataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgetetet tteggeteag agatgcgaaa tgateccca tccaaaaatt aatetetggg gcacctagaa	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattatt	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaaga tactagaaag	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat	480 540 600 660 720 780 840 900 960 1020 1140 1200 1206
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgetetet tteggeteag agatgcgaaa tgateccca tccaaaaatt aatetetggg gcacctagaa aagttcaagt	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattgcat	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat	480 540 600 660 720 780 840 900 960 1020 1140 1200 1206
tattgggaag tacggagccc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatatttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctct	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac gagttagtgg aaaaagcagg	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccccgag tatgetetet tteggeteag agatgcgaaa tgateccca tccaaaaatt aatetetggg gcacctagaa aagttcaagt aaatgeteag	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag	480 540 600 660 720 780 840 900 960 1020 1140 1206
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatatttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac gagttagtgg aaaaagcagg aagcagaagt	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccecgag tatgetetet tteggeteag agatgegaaa tgatececea tecaaaaatt aatetetggg gcacctagaa aagtteaagt aaatgeteag cgetgetgga	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctcattca	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca	480 540 600 660 720 780 840 900 960 1020 1140 1200 1206
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac gagttagtgg aaaaagcagg aagcagaagt caggaaaaaa	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccecgag tatgetetet tteggeteag agatgegaaa tgatececea tecaaaaatt aatetetggg gcacctagaa aagtteaagt aaatgeteag cgetgetgga agaagetaca	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctcattca ctaaaagtag	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taaaggagaaa	480 540 600 660 720 780 840 900 960 1020 1140 1206 1206
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta aaaagcgaaa	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac  gagttagtgg aaaaagcagg aagcagaagt caggaaaaaa aatctgggaa	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccecgag tatgetetet tteggeteag agatgegaaa tgatececea tecaaaaatt aatetetggg gcacctagaa aagtecaagt aaatgeteag cgetgetgga agaagetaca atetaaatec	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta tcaacttcgg	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa aaaggaatga tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctcattca ctaaaagtag tagcaagtgc	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taagggagaa aagtgaaact	480 540 600 660 720 780 840 900 960 1020 1140 1200 1206
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta aaaagcgaaa gcaacggcac	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac gagttagtgg aaaaagcagg aagcagaagt caggaaaaaa aatctgggaa aagccgtaca	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccecgag tatgetetet tteggeteag agatgegaaa tgatececea tecaaaaatt aatetetggg gcacctagaa aagtecaagt aaatgeteag cgetgetgga agaagetaca atetaaatec aggtectaag	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta tcaacttcgg ggattaagac	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctaataa ctaaaagtag tagcaagtgc aaaataatta	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taagggagaa aagtgaaact tgactcaccc	480 540 600 660 720 780 840 900 960 1020 1140 1200 1206
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta aaaagcgaaa gcaacggcac	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac gagttagtgg aaaaagcagg aagcagaagt caggaaaaaa aatctgggaa aagccgtaca	agagattete tgcacgtggg gcaaaaactg tttettecaa aaaccecgag tatgetetet tteggeteag agatgegaaa tgatececea tecaaaaatt aatetetggg gcacctagaa aagtecaagt aaatgeteag cgetgetgga agaagetaca atetaaatec aggtectaag	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta tcaacttcgg ggattaagac	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctaataa ctaaaagtag tagcaagtgc aaaataatta	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taagggagaa aagtgaaact tgactcaccc	480 540 600 660 720 780 840 900 960 1020 1140 1206 1206 120 180 240 300 360
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta aaaagcgaaa gcaacggcac agccttccta	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac gagttagtgg aaaaagcagg aagcagaagt caggaaaaaa aatctgggaa aagccgtaca ctcctgaggc	agagattete tgcacgtggg gcaaaaactg tttettecaa aaacceegag tatgetetet tteggeteag agatgegaaa tgateececa tecaaaaatt aatetetggg gcacctagaa aagtecagt aaatgeteag cgetgetgga agaagetaca atetaaatee aggteetaag acagaccate	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta tcaacttcgg ggattaagac aatggtattg	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctaataa ctaaaagtag tagcaagcgc aaaataatta tacttaaaaa	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taagggagaa aagtgaaact tgactcaccc aggcattgggt	480 540 600 660 720 780 840 900 960 1020 1140 1206 1206 120 180 240 300 360 420
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta aaaagcgaaa gcaacggcac agccttccta acgttagcac	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac  gagttagtgg aaaaagcagg aagcagaagt caggaaaaaa aatctgggaa aagccgtaca ctcctgaggc tcctcggttt	agagattete tgcacgtggg gcaaaaactg tttettecaa aaacceegag tatgetetet tteggeteag agatgegaaa tgateececa tecaaaaatt aatetetggg gcacctagaa  aagtecagt aaatgeteag egetgetgga agaagetaca atetaaatee aggteetaag acagaccate agttatgace	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gegttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta tcaacttcgg ggattaagac aatggtattg ttgatggca	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctaataa ctaaaagtag tagcaagcgc aaaataatta tacttaaaaa atgctgcgg	ggtaaacgaa agcatcgatc taaactgcta ctctgcctct gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taagggagaa aagtgaaact tgactcaccc aggcatgggt agagtcttgg	480 540 600 660 720 780 840 900 960 1020 1200 1200 1200 1200 1200 300 360 420 480
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta aaaagcgaaa gcaacggcac agccttccta acgttagcac aagcttcat	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac  gagttagtgg aaaaagcagg aagcagagt caggaaaaa aatctgggaa aagccgtaca ctcctgaggc tcctcggttt tccaatcaca	agagattete tgcacgtggg gcaaaaactg tttettecaa aaacceegag tatgetetet tteggeteag agatgegaaa tgateececa tecaaaaatt aatetetggg gcacctagaa  aagtteaagt aaatgeteag agaagetaca agaagetaca atetaaatee aggteetaag acagaceate agttatgace agattatgace aaaccaageg	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta tcaacttcgg ggattaagac aitggtattg ttgatggca atccggtcac	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattggctgc atactaagaa atctcatca ctaaaagtag tagcaagcgc aaaataatta tacttaaaaa atgctgcegg aagtcgcagc	ggtaaacgaa agcatcgatc taaactgcta ctctgccict gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taagggagaa aagtgaaact tgactcaccc aggcatgggt agagtcttgg cqctcctqct	480 540 600 660 720 780 840 900 960 1020 1200 1200 1206 60 120 180 240 300 360 420 480 540
tattgggaag tacggagcc tttagtttgc gaaactgcga ggagcaggaa attattcctg tgcgtagaag gctcctgatg tatattttac tttcaagagt gaccaatttc ctctag  Seq ID 27 atgacatcag caatcctctc caaggggctc gcgcaaagta aaaagcgaaa gcaacggcac agccttccta acgttagcac aagcttcat attggagaag	atgaatggaa aaaaggtagc cctcgataca gtcccagaag aagagtttat ctatagggat atgctgtagc tctatttaga tcattattat gtataggatc gcgcggacct cctattcgac  gagttagtgg aaaaagcagg aagcagagt caggaaaaaa aatctgggaa aatctgggaa ctcctgaggc tcctcggttt tccaatcaca ctattaaaag	agagattete tgcacgtggg gcaaaaactg tttettecaa aaacceegag tatgetetet tteggeteag agatgegaaa tgateececa tecaaaaatt aatetetggg gcacctagaa  aagtecagt aaatgeteag egetgetgga agaagetaca atetaaatee aggteetaag acagaccate agttatgace	ctatcgtctt atttctacat tccttaccta cctcagatta ggttcggaaa ccctatgtca gagaacatca gcgttctgca cgttgtggta gtctatatct ggatatcgca aatattattt  caggatccca agcggtcacg ggctttgagg tcttcaacta tcaacttcgg ggattaagac aatggtattg ttgatggca atccggtcac catcaagcat	ctctaaacat attatgaaac gtgacggtaa ctcaggcagc cgcttcttga aaaatgtgat aagcgaataa tgcaaagtaa cttgcaaccc taaaaaagat tactagaaag cattgctgc atactaagaa atctcattca ctaaaagtag tagcaagcgc aaataatta tacttaaaaa tacttaaaaa tacttaaaaa tacttaaaaa tacttaaaaa tacttaaaaa tacttaaaaa tacttaaaaa cagcagcgaatcc	ggtaaacgaa agcatcgatc taaactgcta ctctgccict gaaaattata tctctattgt tggcgttgag caaagaagat aaattgtaaa agtacttaaa taaaacacag gcagcctatt agagatcgat gcaattggca tgtaacaaag agacgcttca taagggagaa aagtgaacact tgaccaccc aggcatgggt agagtcttgg cgctcctgct agagtcttgg cgctcctgct	480 540 600 660 720 780 840 900 960 1020 1200 1200 1200 1200 1200 300 360 420 480

ggtattttct	ctgctgcaaa	aggagetace	tcqqctttaa	aatctoctto	ctttgccaaa	720
gaaacaggtg	cctcagctgc	tagaggtgct	gcttccaaag	ctttaacttc	tacaaattat	780
tctgttcaac	agactatogo	ttcgactgcc	aaggggggaa	Caacadcado	gagttctgcg	
ggatcagcag	ccaccaaagc	tacaacaaa	ctaaccoato	atatagaga	gagttetgeg	840
aaaatggcct	ctgatggagc	ttccaaacct	traccogacg	totttaaaa	ageagettea	900
aaacctaact	ggtctgaaaa	agteteeage	gatatasaga	tactores	agtettaaat	960
catattacat	catttagaga	agececcaga	gytatyaacy	tagtgaaaac	rcagggagcg	1020
catomactos	catttgcagg	tanagetett	Letteeteta	tgcaaatgag	tcaattaatg	1080
catcatcaca	cagcggctgt	cgaaggtett	cergeggge	agacaggaat	agaagtcgcc	1140
tagatttata	ggttagcagg	acaagcagag	gctcaagcag	aagtcttgaa	acaaatgtct	1200
tttaataata	gtcagcaagc	aggacaagca	ggacaattac	aagagcaagc	tatgcaatca	1260
actatatat	ccttacaaac	actacaaaat	attgcggact	ctcaaacaca	aacaacatct	1320
gctatcttta	attaa					1335
O TD 00						
Seq ID 28						
acgagiatag	tcagaaattc	tgcattgcca	cttccgtgtt	taagcagatc	cgaaaccttt	60
aaaaaagtta	ggtcgcatat	gaaatttatg	aaagtcctta	ctccatggat	ttatcgaaaa	120
gatetttggg	taacagcatt	cttactgaca	gcaattccag	gatettttge	acatactett	180
grigatatag	caggagaacc	tcggcatgct	gctcaaqcaa	caggagtttc	tggagat.ggt.	240
aaaattgtta	taggaatgaa	agttccggat	gatecttttg	ctataactgt	aggatttcaa	300
tatattgatg	ggcatttgca	accettagag	gcagtacgtc	ctcaatgctc	totataccct	360
aatggtataa	ccccggacgg	aacggttatt	gtgggtacaa	actatgccat	caggatagat	420
agtgttgctg	tgaaatgggt	aaatggcaag	gtttctgaac	ttcccatact	ccctgacacc	480
ctcgattctg	tagcatcggc	agtttctgca	gatggaagag	tgattggagg	gaatagaaat.	540
ataaatcttg	gcgcttctgt	tgctqtqaaa	taggaggacg	acqtqattac	acaacttcct	600
tctcttcctg	atgctatgaa	tacttatatt	aacggaattt	cttcagatgg	ttctataatt	660
gtaggaacca	tggtagacgt	qtcatqqaqa	aataccccac	tacaatggat	caaaaatcaa	720
ctctctgtta	ttgggacttt	aggaggaact	acttctgttg	ctagtggat	ctcaacacat	780
ggcactgtga	ttgtaggagg	ttctgaaaat	gcagattete	agactcatag	ctatectest	840
aaaaacggtg	ttatgagcga	tatagggacc	ctcggaggtt	tttattcttt	aggagataga	900
gtatcttcag	atggttctgt	gattgtagga	atatecaeca	actotoccoc	tageacatgea	
gcattccaat	atgctgatgg	acagatogta	gatttagga	atttagagea	cagacaccac	960
tatqctcaaq	gtgtgtctgg	agatggaaag	gteettaggaa	atagagaga	geetgaatet	1020
ggagattggc	atgcgttcct	atotectte	caactgcgg	grayaycaca	tataccatet	1080
ggaagcactg	tcgtaactag	ccagaatcca	catageeeega	tagatatas	tecteatggg	1140
tcctctttga	aaaatagcca	acaacaacta	cacagaatag	ttataaaaa	tgetaegtae	1200
gttgaaagtg	tatcctcagg	accaccacta	tttagaagete	tracecayea	Lagugeaaaa	1260
cagageeetg	cagtgcaaaa	tgatgtagag	aaaaaaaa	tyaaaggtgc	gatctcaaaa	1320
gttcatggaa	acqtqcaqaa	traccastta	atasasasas	ctttaagtta	ccgttcccaa	1380
gcttcagctc	acgtgcagaa	atttaaaata	cccacaggag	ettttatgga	ctggaaactc	1440
gtagaacgtg	ctaaatgcgg	ttagagagag	geteteeaet	atggetetea	agatgctctc	1500
tttggaggag	cagctcttcc	acactatas	caaggerrag	gaagcagtgt	cttgtcaggt	1560
ccctttataa	aagttcaagg	acyclatgae	tttaatttag	gagaaactgt	tgttctgcaa	1620
coatttacta	gcattcaagt	tetecaceta	agcagagaag	ggtattctga	gaagaatgtt	1680
catatatte	taagctatga	Licigragee	tactcagcag	ctactagctt	tatgggtgcg	1740
gatgtgatt	cctccctaag	ccctaaaatg	agtacagcag	caactttagg	tgtggagaga	1800
ttaaaaaatt	cacatataga	tgaatttaag	ggatccgtct	ctgctatggg	aaactttgtc	1860
otaagaaacc	ctacagtgag	tgttttaaga	ccttttgctt	ctcttgctat	gtactatgac	1920
graayaraar	agcaactcgt	gacgttgtca	gtagttatga	atcaacaacc	cttaacaggc	1980
acactaaget	tagtaagcca	aagtagctat	aatcttagct	tctaa		2025
Seq ID 29						
-						
ttatata	gcatattgtt	tggtatttc	ctactcacgt	gtttttcttc	tggcggggtg	60
ctatattact	tattctgttc	ccatgatttt	tctatagggc	ctaaggaaaa	atcacgatcc	120
guguggattg	aggaagaaaa	agagttcacg	gattecotat	tacatcatct	accateacaa	180
catcagcatt	tgcatattct	ttgtttccaa	gggtttttac	tacagaagca	acaaaaattt	240
LCLCaagcag	aaaagatttt	ctctaaaqtt	tacqacqaqq	ctcaggacgg	teettttett	300
tttaaggagg	aaattttagg .	atcccgactg	atcaacagtt	tttttttaga	aaaaacagac	360
gccacggaga	ccattctttg	tcttctgaat	caqcqctqtc	ccaactcccc	ttactaccac	420
ttatttaagg	ctctagtatg	ctataaqcaa	aagctatacc	gtgaggtgat	anancaacta	480
gectactggc	aagaagagaa .	aactcgagcg	cttactcctt	tattoaatat	aagtattgaa	540
cagetgetaa	cagattttct	gttagattat	atttctqcqc	atteteteat	agaacagaaa	600
acgeteceeg	aaggcagagt :	aattcttaat	cqcaatatca	ataggttatt	2222727722	660
Lycgagegga	atgcgaagac a	atacgatcgt	attqcqattc	ttettageeg	gagttattt	720
ctagagttgg	tagaatctaa	gtctqcaqat	atttattttg	attattatoa	astaataatt	780
ttctatctca	aaaagatcta-	tattttagag	cagtgtcctt	atgcagaach	tetecceaa	840
			*			

gaagagcttg	tttccttgat	tatggaacac	gtgtttatcc	ttcctaaaga	taaattatat	900
cctttaattc	agctcctaga	gatgtggcag	aagcattatg	ttcacccaaa	tagttcttta	960
gtagttcaga	tattqqtaqa	ccgcttttct	acacatatog	aaggggctat.	tegattttat	1020
gaggetttag	tttctttctc	tggattggaa	caattacatc	acceaettet	taggactttt	1080
gaagagetge	tttcaaataa	autanagna	atananata	22020000000	caccactete	
gaagagatta	otottaacaa	agtacagcag	acaaaaaccy	aayayyctaa	acaacgegee	1140
geceraere	acactegga	tccttctatt	tecattagtg	aaaaattagc	tetttetteg	1200
gatacattac	aaaatatagt	ttctggggac	gacgagcagc	atacaaaact	ccgcaattac	1260
ctagatcttt	gggaagccat	acagtcttat	gatattgatc	gccaacagct	cgttcatcac	1320
ttagtttatg	gtgcaaaaga	tctttggaaa	aaaqqaqqaa	atgatgaaaa	ggcattgaac	1380
cttcttcage	tagtettaag	gtttacaagc	tacgatatag	aatocoaaao	tattatatt	1440
ctttttataa	aacaggggta	taagcaagca	ctatettees	atogoguag	tagtattt	1500
aportagaaa	aatttatata	ggaagea	ctgcccccc	tombookhoo	togicilla	
aagecagaaa	aacctatacc	ggaagcgaat	atteceteta	tagtgattag	rgaggcrgag	1560
aaggccaatt	tettageaga	tgctgaatat	ctttttgctc	atgaagacta	tgacaaatgc	1620
tatttgtata	gcatgtggtt	gactaaggtg	gccccctccc	ctcaatccta	tegettagea	1680
gggttatgcc	tgatggaaaa	taagcgttac	gacgaagctt	tagaatttct	ctgtatgctc	1740
tcacccaata	atagtatcaa	cgactataag	acgcagaagg	cattagcatt	ttqccaaaaa	1800
	aggaccgagc		5 5 55		<b>-</b>	1830
	3333.	- 5 5				1050
Seq ID 30						
argrigggea	aagaagaaga	gtttacgtgt	aaacaaaagc	agtgtttgtc	acattttgtt	60
accaatctga	cgtccgatgt	atttgcttta	aaaaatcttc	cagaagtcgt	taagggagct	120
ttattttcta	aatactcccg	ttcagtttta	ggtttgcgag	cacttttgtt	aaaagaattt	180
ctatctaatg	aagaggatgg	agatgtttgt	gacgaagcct	atgacttcga	aaccgatgta	240
cagaaagctg	cqqactttta	ccaaagggtt	cttgataatt	ttggggatga	ttctgtagga	300
gagettggeg	gagcccacct	ggctatggaa	aatototota	ttttaaataa	taaaattta	360
gaggatgete	gasttaaaa	staggggta	aacgcccca	coccegecac	caaageeeea	
gaggacgccc	gaaccggcgg	atccccgcta	gaaaagccca	caagatacgt	ctatttcgat	420
caaaayytat	ggggggagta	tttatattac	cgagacecta	ttttgatgac	tteggeettt	480
aaagacatgt	ttttgggtac	ttgtgatttt	ttattcgata	cctattctgc	tttaatccct	540
caagttcgtg	cctattttga	aaaactgtat	cctaaagatt	ctaaaacacc	cgcatctgcc	600
tatgccacat	cattacgagc	taaagtttta	gattgtatac	ggggacttct	tectgeggea	660
actttgacaa	atctaggatt	tttcggtaac	ggtaggtttt	ggcaaaatct	gattcacaag	720
ttacaaggtc	ataaccttgc	agagttgcga	cotttaggag	atgaatccct	aacagagett	780
atgaaagtta	ttccttcatt	tgtaagtaga	accasacete	atcatcacca	tastasaaat	840
atgatggaat	atrosacac	tttaaaaaaa	googagooco	accaccacca	ccaccaagee	
tttagtgage	accyaayayc	tttaaaagag	cagcicaagg	gaerrgerga	acaagcaaca	900
tttagtgagg	agargreere	ttcaccgagt	gttcagttgg	tatacggaga	ccctgatggc	960
atttataaag	tagetgetgg	atttctttt	ccttattcaa	atcgttctct	tacagatctc	1020
atagactatt	gtaaaaaaat	gcctcatgaa	gatcttgtac	agattttaga	gagcagtgtt	1080
tctgcaagag	aaaaccgccg	gcataagtct	cctcgtggtt	tagaatgcgt	agaatttggc	1140
tttgatatac	ttgctgattt	cggtgcatac	cgcgatttgc	aacqacatcq	gacgctgact	1200
caagaacgac	agttactctc	tacacatcat	ggatacaatt	tteetataa	gettetagat	1260
actcctatog	aaaaatctta	tcgagaagct	atagagaga	casstassa	gtataatgag	1320
attottcago	agttccctga	ggaageteag	tatateette	gaacgaaac	ccacaacgag	
taatttttaa	atotaaatoo	tacasettta	cacacygucu	ccatggetta	Caacacacgc	1380
cggcccccc	argradaryc	tegggetttg	caatggattt	grgagrracg	ctcacagcct	1440
caaggteate	aaaattaccg	cactatagct	acaggtttag	tgcgagaggt	tgtcaagttc	1500
aatcctatgt	acgaattatt	tttcaaattt	gtagattatt	ctgacataga	tttaggacgg	1560
ttaaatcagg	aaatgcgaaa	agaaccaacg	acctaa			1596
Seq ID 31						
cacataataa	aggragtagt	ctctcacaag	annannannt	aatatataa	anaganat na	60
acctcttatt	ctttattta	cagcatcctc	agcaggacce	ccccatata	caggcagcac	
agececcace	CLLLACLLLA	cagcatcette	aag			93
a. == ==						
Seq ID 32						
gacggagtta	attttggaaa	tcttttccag	ccgtgccctt	actgcagagg	caaatatcca	60
agtccaactt	gcacaagcac	gttatctcct	tectegtet	_		99
			•			
Seq ID 33						
ggcttacgac	aatttaaa	aggatagtag	atagtagtat	aaaaaaa		<b>CO</b>
tasttastas	ggccccgcaa	acgatactee	acagragrac	cggaaagtgg	agageettte	60
tgcttactca	ayaaaaaaaa	gatettttg	•			90
Seq ID 34						
aacttcccaa	tctgtgatag	aagttccaga	ttcagagggg	attgcagaga	cgaggatete	60
tgcggaagaa	atcgatacga	ggettteect	qacqacaaqa	cagaaggt.ca	tetttactet	120
tgcgacactc	ttgctcttag	caagtattee	taccttcata	atcacage	ttaataastt	180
gacagtcatg	caagttetee	ttattaatta	tatagastas	acacttastt	atatas sast	
J 5 ccacg	Jangeleele	Lugurguru	cycayyaccy	goggingent	CLYLAACACE	240

ccctatggtt cag	tcctcaggat	tttcctacgt	cgcctaccaa	ctgaaagcaa	gattgaatat	300 303
Seq ID 35 tttcttcctg ttg	tgttgccggg	attattacta	ggtcctcctt	tacctcagat	gtcgttcaga	, 60 63
ctctcagcta	tacctgaatg	ttcaaacgga gcatttttcc gaactgctct	ggaacgaata	ctagctcgaa	aattaaaaaa	60 120 180 189
gaaaagaaaa	aatcaaaatt atatggtcca	actatggagc cttcaacgta ggaacggttc tcccgag	tctcaccatt	ttcagaaggt	tcttcgattg	60 120 180 207
Seq ID 38 gcacaagcgt	tegggageet	actcctcagg	atgcta			36
Seq ID 39 gagctactca accagctcgc		gagaaaaaca	agctcagcta	ttggaaaaaa	gaactttacg	60 75
Seq ID 40 gaaggaagag aacttcagga	aagatettee gtgeageeta	atcagcactt ctgcggatcc	aggaaaggca tgttgc	gccccacaag	cggcaacagc	60 96
Seq ID 41 cgccttagga atctatttat	gtacaacaaa gtgatgttcc	cacctcccag ccacgggagt	tcaagtcctc ggctatgta	aatgggattg	cactcatcct	60 99
Seq ID 42 gctccccaag	cccggggtga	caccaagatc	agaggttatc	gaaatcggac	tegegettge	60
ttatttctca tcaacgctgg atagactcat tattttctta	tcgctcagga tcaaatcaaa ggaaattgaa cgaggattct	tatgctatca gaaactacgg acaggctctt gaagagcttg gaggaataga tctatgggcc	acactacgat tatcacgttc gatccgaagc gggattttct	tgcagatctt tgagcgtgtt aattttcaca	gctgttgcct gcaaaataca gattctaatg	60 120 180 240 300 339
Seq ID 44		tctcgcatca		caaaaactac	aaaatotcca	60
Seq ID 45 accgacatac gtacccegca	tcgtcaaatt gcaaaaatat	cattaagaac gacaagtatc ccaattcttc	atcttcccac tacacacacg	ccctgtggag ccaatgggaa	aggtaatgtc	60 120 165
Seq ID 46 tcttctcgct aagagatgta	gtacacaacg tggggagc	agaaattgct	gggaggagaa	cggtaaacac	accaaagcca	60 78
agtageteet agttteattt geececaaca gggtgtatat	actggagtgc ataaaggaga tcatcccaaa ccactactag	ccttaatgcc caggacctgt agtctggagc tcggacctgt attctttagc gatgattgta	atgagacgtc tggggtcgtt ttctactttt attccaagga	gagtgagccc ttccagttaa gctccacgac ccgtagacta	ctccacctgg tgcctttcaa gccatgcaga cagcagtttt	60 120 180 240 300 360

tgtaggtttt	acgcgtcccg	tcca				384
Seq ID 48						
gcccttttat	cacgagettg	tgtggcatca	atcataccag	ctcgtaagtc	cgcatcaatc	60
gccatctgtt	tacctggcat	cgcatccaat	cggaatcggg	cagcaacttc	ggcaacacgc	120
tcggcaccct	tagttactac	gataaac			_	147
Seq ID 49						
aataaggtaa	ttacaggatc	atggcgagtg	ggagettgtq	agagcatgga	aaccagaaag	60
ccacctaaat	gcttgaaaaa	aaaggtcgat	agggagaaag	ccgtaaacat	agagacgata	120
aaggtaaccg	cagaaggaaa	atcc		_	3 3 3	144
Seq ID 50						
ggcatctctg	tgatgatgat	gctctcacga	tgtttatctt	cattetette	tacatgcaga	60
cgagctcgaa	ctttaatctt	tcctcgtcct	gtagtatacg	tggagcgaat	tccttcagaa	120
ccgcagataa	ttcctcctgt	agggaaatca	gggcctggca	tgacttgtaa	aatctcatcc	180
acagaagcct	gtggatttgc	aagcagaaga	agtgtagctt	ctataagttc	ccctaaattq	240
tgtgggggga	tattcgttgc	catcccaaca	gcaattcctg	aagaaccatt	gcaaagaaga	300
ttcggaaatt	tagaaggaaa	aactacaggc	tcgtgttttg	tttcatca		348
Seq ID 51						
agtggcagaa	ttatctccgt	catgttgtcc	gctccaccgt	gtgagctgca	tagtgacttg	60
atagateceg	acttgtttga	gtttaaccac	aggctcaata	tctgcatatc	tgctgaagtc	120
aggggtcgcg	ttacgactca	cacttttaga	ggtgatagct	gcaacatgag	tttcaattgt	180
agtgttaggg	gcaacgtaat	aaccattccc	aggataatac	gtatagagat	tcgcagcctg	240
acatccagtt	tttctataat	aactaaatgt	aagcgcatct	cgagcagact	gaggatcact	300
aatattattg	catactggag	tttgcgatac	gtctgtctta	gaatagatat	taaaaccgtc	360
agagagtgta	gtagcattaa	gttgagaacc	ttccgcagac	acattaccct	tcacaataaa	420
ttcacatgga	gaagtcgtgg	tatc				444
Seq ID 52						
agtgatcgta	actcttttc	aatctctgtg	agtttttcaa	aatacgcaga	ttttatagca	60
cctctgaact	ggagcttacg	caccagaagg	gcgttcaacc	cagtagaagc	cgccctcatt	120
cgattttcac	attcttcaag	agttaggcca	gaagttactg	ttccagaaat	aaggaactca	180
Seq ID 53						
-	ttttctataa	acttttcaat	ataaacatto	aaattattaa	aaccooctto	60
ggcttctgca	catacaacaa	aaaacgctct	atagaattcg	teettteett	taacaataco	120
aattcctctt	ccccacctc	cagcaacggc	tttaataaca	atagggaaac	ctatttttc	180
agctatttt				ucugggaaac	Coaccccc	189
Seq ID 54						
	cttccataga	aaccccttct	tcaccgacaa	cttccatacq	cttgccgatt	60
tetgaacett	tctctagaaa	ctgtgctgct	tttttcacag	caccacccca	acctgaaacc	120
ttctcttcta	aaatttgtcc	tacctggttc	aaatattttg	accaagaaat	caaagggtct	180
attgaaggat	acctacgtgc	gtcagctcgt	qcttttqaaa	gaccacagaa	cactccact	240
acagctaatg	tagat		J . J	J	-301003000	255
Seq ID 55						
ggagaccttg	aacattataa	acacatccat	ggaccttttt	caaaat.caag	ccaccatooc	60
aaacgtcata	agegecacaa	ttatttaatg	ttcctacagt	qtcqatataa	gactctatgc	120
ggtgatcagg	aatca		<b>J</b> -	JJ	gaococacgo	135
Seq ID 56						
	tcaatqcatc	cccgccgatc	acaacaaqtc	gtagggactc	сааасаппаа	60
ttttgtttt	ttgctgtttt	cagaata		3043334666	caaacaggaa	87
Seq ID 57						
	cactagcace	acagcgttca	ttagggggtg	ccatacaata	ccaactaass	60
gaatggccga	tacaggacac	ttcgatttca	cgagacccta	agcgacttta	ctccaccagaa	120
acatccotot	catatagaaa	tgcttctgag	atcttttctt	gtaatteete	tttatcacca	180
actaaaaata	tcccaatact	agateceaaa	tatacaattt	ttacaatcat	adddaaadaa	240
aatgtctcta	taagattc	J	- 3-3-23-00			258
	- 24			•		200

Seq ID 58 ccactaggtc ccgcaccaat gtaatcaaga tttcaaaaag accctgtgct tattt	aacaacacaa aaccccctt	tcaaattctt cataaatgca	gggtcatatt tgcatctcat	ctcactcact taagaagagg	60 120 135
Seq ID 59 ggagaacaac cattcctgtt tatataggca ccctacaatc ttccctcaga aaatattcca aagacggatc ttgatccgag	gtctttccat	cactggaaac	acceteteca	aaagattgga	60 120 180 207
Seq ID 60 gtgacatcta agtacgcttc aaaatagcac gcgctcctac tctaagaaat accaaggagc actatgcgct ttgaagaatc tctgaaatta atcgtagctt	atctcggctg tcctgtctct cccaqqcacc	acaagattcc ccacaaggac cacacacac	catacgcagg gttccgaacc	atacatatct	60 120 180 240 285

#### Seq ID 61

MVNPIGPGPIDETERTPPADLSAQGLEASAANKSAEAQRIAGAEAKPKESKTDSVERWSILRSAVNALMSLADKLGIASS NSSSSTSRSADVDSTTATAPTPPPPTFDDYKTQAQTAYDTIFTSTSLADIQAALVSLQDAVTNIKDTAATDEETAIAAEW ETKNADAVKVGAQITELAKYASDNQAILDSLGKLTSFDLLQAALLQSVANNNKAAELLKEMQDNPVVPGKTPAIAQSLVD QTDATATQIEKDGNAIRDAYFAGQNASGAVENAKSNNSISNIDSAKAAIATAKTQIAEAQKKPPDSPILQEAEQMVIQAE KDLKNIKPADGSDVPNPGTTVGGSKQQGSSIGSIRVSMLLDDAENETASILMSGFRQMIHMFNTENPDSQAAQQELAAQA RAAKAAGDDSAAAALADAQKALEAALGKAGQQQGILNALGQIASAAVVSAGVPPAAASSIGSSVKQLYKTSKSTGSDYKT QISAGYDAYKSINDAYGRARNDATRDVINNVSTPALTRSVPRARTEARGPEKTDQALARVISGNSRTLGDVYSQVSALQS VMQIIQSNPQANNEEIRQKLTSAVTKPPQFGYPYVQLSNDSTQKFIAKLESLFAEGSRTAAEIKALSFETNSLFIQQVLV NIGSLYSGYLQ

# Seq ID 62

MKKLLKSALLSAAFAGSVGSLQALPVGNPSDPSLLIDGTIWEGAAGDPCDPCATWCDAISLRAGFYGDYVFDRILKVDAP KTFSMGAKPTGSAAANYTTAVDRPNPAYNKHLHDAEWFTNAGFIALNIWDRFDVFCTLGASNGYIRGNSTAFNLVGLFGV KGTTVNANELPNVSLSNGVVELYTDTSFSWSVGARGALWECGCATLGAEFQYAQSKPKVEELNVICNVSQFSVNKPKGYK GVAFPLPTDAGVATATGTKSATINYHEWQVGASLSYRLNSLVPYIGVQWSRATFDADNIRIAQPKLPTAVLNLTAWNPSL LGNATALSTTDSFSDFMQIVSCQINKFKSRKACGVTVGATLVDADKWSLTAEARLINERAAHVSGQFRF

# Seq ID 63

MSVNPSGNSKNDLWITGAHDQHPDVKESGVTSANLGSHRVTASGGRQGLLARIKEAVTGFFSRMSFFRSGAPRGSQQPSA PSADTVRSPLPGGDARATEGAGRNLIKKGYQPGMKVTIPQVPGGGAQRSSGSTTLKPTRPAPPPPKTGGTNAKRPATHGK GPAPQPPKTGGTNAKRAATHGKGPAPQPPKGILKQPGQSGTSGKKRVSWSDED

### Seq ID 64

MGINPSGNRSPDDVWVRGAQGDSSSTQGTGATNSNLGAHNVTTSTSQPQVASKAKQLWQTVREFFLGKKSPDSSQGASGP AMQSPSGPTIRPTRPAPPPPTTGGANAKRPATHGKGRAPQPPTAGSSSGSEQPTAMSSEVAKLVSELKDAVHSHAESQKV LKKVSQELQTKWTDWENNRGPDYLLHGYRVIARALQQTYTEQSMLIEGTSSTGPVPQAVTVAKDAVTQTVRGAIKNLENP KPGNDPDGVLMQVVISLGIEGPTLDPGESIQNFLETRVSDFGGDDSDIDYTSDIARLGSALDRVRENHPNEMPRIWIALA RELGAAVHSHATSVRIANAGKNHTRDVVRMANESSRLLQGMKVLSVGAWANTMTVLIGDLFE

#### Seq ID 65

MKTLWHFVSKAFLSIVGLCCGVVLAFVVIFALIASSLGNGDATFVSLPDAQGEVKDLGKTAPIIAVIEMKDVIASSKNTA
KTIQNILEGFEKAPLKDRVKGIVIDMDCPGGEVFEIDRIYSMLRFWKERKGFPIYIYVNGLCASGGYYVSCAATKIYATS
SSLIGSIGVRSGPFFNVKEGLNRYGVESDLLTAGKDKAPMNPYTPWTSHDREERQATLDFLYGQFVDIVTQNRPLLTKEK
LVHTLGARIFSPEKAKQEGYIDVVGATKEQVLQDIVAVCKIEDNYRVIGSGGDGWWKRVASAAASSPLVTGMIKHDILPL
SHDAAYIPPYLAL

## Seq ID 66

MRPHRKHVSSKSLALKQSASTHVEITTKAFRLSMPLKQLILEKSDHLPPMETIRVVLTSHKDKLGTEVHVVASHGKEILQ TKVHNANPYTAVINAFKKIRTMANKHSNKRKDRTKHDLGLAAKEERIAIQEEQEDRLSNEWLPVEGLDAWDSLKTLGYVP ASAKKKISKKKMSIRMLSQDEAIRQLESAAENFLIFLNEQEHKIQCIYKKHDGNYVLIEPSLKPGFCI

# Seq ID 67

MAAPINQPSTTTQITQTGQFFTTTTVGSLGEHSVTTTGSGAAAQTSQTVTLIADHEMQEIASQDGSAVSFSAEHSFSTLP PETGSVGATAQSAQSAGLFSLSGRTQRRDSEISSSSDGSSISRTSSNASSGETSRAESSPDLGDLDSLSGSERAEGAEGP EGPGGLPESTIPHYDPTDKASILNFLKNPAVQQKMQTKGGHFVYVDEARSSFIFVRNGDWSTAESIKVSNAKTKENITKP

ADLEMCIAKFCVGYETIHSDWTGRVKPTMEERSGATGNYNHIMLSMKFKTAVVYGPWNAKESSGYTPSAWRRGAKVETG PIWDDVGGLKGINWKTTPAPDFSFINETPGGGAHSTSHTGPGTPVGATVVPNVNVLGGIKVDLGGINLGGITTNVTTEE GGGTNITSTKSTSTDDKVSITSTGSQSTIEEDTIQFDDPGQGEDDNAIPGTNTPPPPGPPPNLSSSRLLTISNASLNQVL QNVRQHLNTAYDSNGNSVSDLNQDLGQVVKNSENGVNFPTVILPKTTGDTDPSGQATGGVTEGGGHIRNIIQRNTQSTGQ SEGATPTPQPTIAKIVTSLRKANVSSSSVLPQPQVATTITPQARTASTSTTSIGTGTESTSTTSTGTGTGSVSTQSTGVG TPTTTTRSTGTSATTTTSSASTQTPQAPLPSGTRHVATISLVRNAAGRSIVLQQGGRSQSFPIPPSGTGTQNMGAQLWAA ASQVASTLGQVVNQAATAGSQPSSRRSSPTSPRRK

### Seq ID 68

MKTSQLFYKTSKNANKSAAVLSNELLEKAGYLFKVSKGVYTYTPLLWRVVSKMMNIIREELNAIGGQELLLPLLHNAELW QHTGRWEAFTSEGLLYTLKDREGKSHCLAPTHREVICSFVAQWLSSKRQLPLHLYQIATKFRDEIRPRFGLIRSRELLME DSYTFSDSPEQMNEQYEKLRSAYSKIFDRLGLAYVIVTADGGKIGKGKSEEFQVLCSLGEDTICVSGSYGANIEAAVSIP PQHAYDREFLPVEEVATPGITTIEALANFFSIPLHKILKTLVVKLSYSNEEKFIAIGMRGDRQVNLVKVASKLNADDIAL ASDEBIERVLGTEKGFIGPLNCPIDFFADETTSPMTNFVCAGNAKDKHYVNVNWDRDLLPPQYGDFLLAEEGDTCPENPG HPYRIYQGIEVAHIFNLGTRYTDSFEVNFQDEHGQTQQCWMGTYGIGVGRTLAACVEQLADDRGIVWPKALAPFSITIAF NGGDTVSQELAETIYHELQSQGYEPLLDDRDERLGFKLKDSDLIGIPYKLILGKSYQSSGIFEIESRSGEKYTVSPEAFP TWCQNHLA

### Seq ID 69

MASGIGGSSGLGKIPPKDNGDRSRSPSPKGELGSHEISLPPQEHGEEGASGSSHIHSSSFLPEDQESQSSSSAASSPGF FSRVRSGVDRALKSFGNFFSAESTSQARETRQAFVRLSKTITADERRDVDSSSAAATEARVAEDASVSGENPSQGVPETS SGPEPQRLFSLPSVKKQSGLGRLVQTVRDRIVLPSGAPPTDSEPLSLYELNLRLSSLRQELSDIQSNDQLTPEEKARATV TIQQLIQITEFQCGYMEATQSSVSLAEARFKGVETSDEINSLCSELTDPELQELMSDGDSLQNLLDETADDLEAALSHAR LSFSLDDNPTPIDNNPTLISQEBPIYEEIGGAADPQRTRENWSTRLWNQIREALVSLLGMILSILGSILHRLRIARHAAA EAVGRCCTCRGEECTSSEEDSMSVGSPSEIDETERTGSPHDVPRRNGSPREDSPLMNALVGWAHKHGAKTKESSESSTPE ISISAPIVRGWSQDSSVSFIVMEDDHIFYDVPRRKDGIYDVPSSPRWSPARELEEDVFGDYEVPITSAEPSKDKNIYMTP RLATPAIYDLPSRPGSSGSSRSPSSDRVRSSSPNRRGVPLPPVPSPAMSEEGSIYEDMSGASGAGGSDYEDMSRSPSPRG DLDBPIYANTPEDNPFTQRNIDRILQERSGGASASPVEPIYDEIPWIHGRPPATLPRPENTLTNVSLRVSPGFGPEVRAA LLSESVSAVMVEAESIVPPTEPGDGESEYLEPLGGLVATTKILLQKGWPRGESNA

#### Seq ID 70

MRFFCFGMLLPFTFVLANEGLQLPLETYITLSPEYQAAPQVGFTHNQNQDLAIVGNHNDFILDYKYYRSNGGALTCKNLL ISENIGNVFFEKNVCPNSGGAIYAAQNCTISKNQNYAFTTNLVSDNPTATAGSLLGGALFAINCSITMNLGQGTFVDNLA LNKGGALYTETNLSIKDNKGPIIIKQNRALNSDSLGGGIYSGNSLNIEGNSGAIQITSNSSGSGGGIFSTQTLTISSNKK LIEISENSAFANNYGSNFNPGGGGLTTTFCTILNNREGVLFNNNQSQSNGGAIHAKSIIIKENGPVYFLNNTATRGGALL NLSAGSGNGSFILSADNGDIIFNNNTASKHALNPPYRNAIHSTPNMNLQIGARPGYRVLFYDPIEHBLPSSFPILFNFET GHTGTVLFSGEHVHQNFTDEMNFFSYLRNTSELRQGVLAVEDGAGLACYKFFQRGGTLLLGQGAVITTAGTIPTPSSTPT TVGSTITLNHIAIDLPSILSFQAQAPKIWIYPTKTGSTYTEDSNPTITISGTLTLRNSNNEDPYDSLDLSHSLEKVPLLY IVDVAAQKINSSQLDLSTLNSGEHYGYQGIWSTYWVETTTITNPTSLLGANTKHKLLYANWSPLGYRPHPERRGEFITNA LWQSAYTALAGLHSLSSWDEEKGHAASLQGIGLLVHQKDKNGFKGFRSHMTGYSATTEATSSQSPNFSLGFAQFFSKAKE HESQNSTSSHHYFSGMCIENTLFKEWIRLSVSLAYMFTSEHTHTMYQGLLEGNSQGSFHNHTLAGALSCVFLPQPHGESL QIYPFITALAIRGNLAAFQESGDHAREFSLHRPLTDVSLPVGIRASWKNHHRVPLVWLTEISYRSTLYRQDPELHSKLLI SQGTWTTQATPVTYNALGIKVKNTMQVFPKVTLSLDYSADISSSTLSHYLNVASRMRF

#### Seq ID 71

MKSSLHWFLISSSLALPLSLNFSAFAAVVEINLGPTNSFSGPGTYTPPAQTTNADGTIYNLTGDVSITNAGSPTALTASC FKETTGNLSFQGHGYQFLLQNIDAGANCTFTNTAANKLLSFSGFSYLSLIQTTNATTGTGAIKSTGACSIQSNYSCYFGQ NFSNDNGGALQGSSISLSLNPNLTFAKNKATQKGGALYSTGGITINNTLNSASFSENTAANNGGAIYTEASSFISSNKAI SFINNSVTATSATGGAIYCSSTSAPKPVLTLSDNGELNFIGNTAITSGGAIYTDNLVLSSGGPTLFKNNSAIDTAAPLGG AIAIADSGSLSLSALGGDITFEGNTVVKGASSSQTTTRNSINIGNTNAKIVQLRASQGNTIYFYDPITTSITAALSDALN LNGPDLAGNPAYQGTIVFSGEKLSEAEAAEADNLKSTIQQPLTLAGGQLSLKSGVTLVAKSFSQSPGSTLLMDAGTTLET ADGITINNLVLNVDSLKETKKATLKATQASQTVTLSGSLSLVDPSGNVYEDVSWNNPQVFSCLTLTADDPANIHITDLAA DPLEKNPIHWGYQGNWALSWQEDTATKSKAATLTWTKTGYNPNPERRGTLVANTLWGSFVDVRSIQQLVATKVRQSQETR GIWCEGISNFFHKDSTKINKGFRHISAGYVVGATTTLASDNLITAAFCQLFGKDRDHFINKNRASAYAASLHLQHLATLS SPSLLRYLPGSESEQPVLFDAQISYIYSKNTMKTYYTQAPKGESSWYNDGCALELASSLPHTALSHEGLFHAYFPFIKVE ASYIHQDSFKERNTTLVRSFDSGDLINVSVPIGITFERFSRNERASYEATVIYVADVYRKNPDCTTALLINNTSWKTTGT NLSRQAGIGRAGIFYAFSPNLEVTSNLSMEIRGSSRSYNADLGGKFQF

### Seq ID 72

MFEKFTNRAKQVIKLAKKEAQRLNHNYLGTEHILLGLLKLGQGVAVNVLRNLGIDFDTARQEVERLIGYGPEIQVYGDPA LTGRVKKSFESANEEASLLEHNYVGTEHLLLGILHQSDSVALQVLENLHIDPREVRKEILKELETFNLQLPPSSSSSSS SRSNPSSSKSPLGHSLGSDKNEKLSALKAYGYDLTEMVRESKLDFVIGRSSEVERLILILCRRRKNNPVLIGEAGVGKTA IVEGLAQKIILNEVPDALRKKRLITLDLALMIAGTKYRGQFEERIKAVMDEVRKHGNILLFIDELHTIVGAGAAEGAIDA SNILKPALARGEIQCIGATTIDEYRKHIEKDAALERRFQKIVVHPPSVDETIEILRGLKKKYEEHHNVFITEEALKAAAT

LSDQYVHGRFLPDKAIDLIDEAGARVRVNTMGQPTDLMKLEAEIENTKLAKEQAIGTQEYEKAAGLRDEEKKLRERLQSM KQBWENHKEBHQVPVDEEAVAQVVSLQTGIPSARLTEAESEKLLKLEDTLRRKVIGQNDAVTSICRAIRRSRTGIKDPNR PTGSFLFLGPTGVGKSLLAQQIAIEMFGGEDALIQVDMSEYMEKFAATKMMGSPPGYVGHEEGGHLTEQVRRRPYCVVLF DEIEKAHPDIMDLMLQILEQGRLTDSFGRKVDFRHAIIIMTSNLGADLIRKSGEIGFGLKSHMDYKVIQEKIEHAMKKHL KPEFINRLDESVIFRPLEKESLSEIIHLBINKLDSRLKNYQMALNIPDSVISFLVTKGHSPEMGARPLRRVIEQYLEDPL AELLLKBSCRQEARKLRATLVENRVAFEREEEEQEAALPSPHLES

#### Seq ID 73

MGLQSRLQHCIEVSQNSNFDSQVKQFIYACQDKTLRQSVLKIFRYHPLLKIHDIARAVYLLMALKEGEDLGLSFLNVQQY PSGAVELFSCGGFPWKGLPYPAEHAEFGLLLLQIAEFYEESQAYVSKMSHFQQALFDHQGSVFPSLWSQENSRLLKEKTT LSQSFLFQLCMQIHPEYSLEDPALGFWMQRTRSSSAFVAASGCQSSLGAYSSGDVGVIAYGPCSGDISDCYYFGCCGIAK EFVCQKSHQTTEISFLTSTGKPHPRNTGFSYLRDSYVHLPIRCKITISDKQYRVHAALAEATSAMTFSIFCKGKNCQVVD GPRLRSCSLDSYKGPGNDIMILGENDAINIVSASPYMBIFALQGKEKFWNADFLINIPYKEEGVMLIFBKKVTSEKGRFF

#### Seq ID 74

MTKIAFSEKAKNFPVEALKKWFEKNKRSLPWRDNPTPYSVWVSEVMLQQTRAEVVIDYFNQWMERFPTIESLAAAKEEDV IKLWEGLGYYSRARHLLEGARMVMEEFHGKIPDDAISLAQIRGVGPYTVHAILAFAFKRRAAAVDGNVLRVLSRIFLIET SIDLESTRTWVSRIAQALLPHKSPEVIAEALIBLGACICKKVPQCHRCPVRQACGAWRENKQFVLPVRHARKKVIFLHRL VAIVLYDGSLVVEKRRPKEMMAGLYEFPYIEVEPEEGLQDIEGFTKKMELSLESPLEFLGNLKEQRHAFTNHKVHLCPIIFKATSLPQFGELHLLSDIDHLAFSSGHKKIKDALLIYLGDVRSRESIGV

#### Seq ID 75

MAVSGGGGVQPSSDPGKWNPALQGEQAEGPSPLKESIFSETKQASSAAKQESLVRSGSTGMYATESQINKAKYRKAQDRS STSPKSKLKGTFSKMRASVQGFMSGFGSRASRVSAKRASDSGEGTSLLPTEMDVALKKGNRISPEMQGFFLDASGMGGSS SDISQLSLEALKSSAFSGARSLSLSSSESSSVASFGSFQKAIEPMSEEKVNAWTVARLGGEMVSSILIDPNVETSSLVRRA MATGNEGMIDLSDLGQEEVSTAMTSPRAVEGKVKVSSSDSPEANPTGIPNSNTLERAEKEAEKQESREQLSEDQMMLARA MAGLLTGAAPQEVLSNSVWSGPSTVFPPPKFSGTLPTQRSGDKSKHKSPGIEKSTNHTNFSPLREGTVKSAEVKSLPHPE SMYRFPKDSIVSREEPEAVVKESTAFKNPENSSQNFLPIAVESVFPKESGTGGALGSDAVSSSYHFLAQRGVSLLAPLPR ATDDYKEKLEAHKGPGGPPDPLIYQYRNVAVEPPIVLRSPQPFSGSSRLSVQGKPEAASVHDDGGGGNSGGFSGDQRRGS SGQKASRQEKKGKKLSTDI

#### Seq ID 76

MKRRSWLKILGICLGSSIVLGFLIFLPQLLSTESGKYLVFSLIHKESGLSCSAEELKISWFGRQTARKIKLTGEAKDEVF
SAEKFBLDGSLLRLLIYKKPKGITLSGWSLKINEPASIDHPSVSHLDPGSILTYLNDCKIISEHGFITMKTVSGSSLSVS
GFYLEKSSEKFMTKCVVSEDQQSGNIFIESVLSPDVSISAQFSSVPVAFFKIFIASPFWDHLLSYEDIINLSAEATHTND
GKISMTASGEGNQIQMKLQGHIHKSTFYIVEGSSSFIELKPELASALCNQIIPLSTPITSKQIHATVSYAKIPLDITKWK
HIEITSQAQLPEVATHPKDPNLALQLRDTKLGIKKTEKFSDIRYSSSTVLGGASPSHLNGLISIDNKKHLTKFRLQQAQL
PHTYLRAIFPQPFVINVPLDVAYYSLNIEGTYKNAHLEADAILDNPLLKLSCSMSGAWKNFLFKGQGTYHFNKKWQEILS
PHFSYAEARFSGKAQITDTNLFFPKFSGKITARENELLIHAKFGSPNEPIKPETTSILHGQFCSLPLSLVSNHLAPFHL
KKLTFSFHTDGGKFVTKGNLQALIENPDYPDLNNTRILIPDLLLSLDESSTSPSSKDLKIQGSGEIFSLPLDSITKTYGK
QVRLSPYFGSSGDLNFVVNYNPKDQNKLTLLSNFKSEALLGELKLVMDFSMKLSSGTQGTLQWEVSPERYASFFKNASCS
PTCLLHRTANVRLDISKLSCPEETKGLSCLTLLAAGGLEGSLEATPLIFYDNVSKETFIINDFKGSLRANNLDAKIEYDL
KGSCLAPRQDSKTLAEFSLEGQVDHLFSPESREFKQTANWIHIPSSFIAGIIPMSPGLKAQISSLAGPRINVSIKNAFRF
GEGPVDIMVDSENLQAQIPLILNEKSILLRENLTAHLSINEDVNKAFLQEFNPLLAGGAYSQYPVTLEIDKQNFYLPIRP
YSFEEFRIQSATLDMGKISIANTGTMYALFQFLDITDQKQFVESWFTPIFFSVQKGSIICKRXDALIDRRIRLALWGKTD
IAHDRLFMTLGIDPEVIKKYFHNTSLKTKNFFLIKIRGSISSPEVDWSSAYARIALLKSYSLGNPFSSLADKLFSSLGDS

#### Seq ID 77

MSSPVNNTPSAPNIPIPAPTTPGIPTTKPRSSFIEKVIIVAKYILFAIAATSGALGTILGLSGALTPGIGIALLVIPFVS
MVLLGLILKDSISGGEERRLREEVSRFTSENQRLTVITTTLETEVKDLKAAKDQLTLBIEAFRNENGNLKTTAEDLEEQV
SKLSEQLEALERINQLIQANAGDAQBISSBLKKLISGWDSKVVEQINTSIQALKVLLGQEWVQEAQTHVKAMQEQIQALQ
AEILGMHNQSTALQKSVENLLVQDQALTRVVGELLESBNKLSQACSALRQEIEKLAQHETSLQQRIDAMLAQEQNLAEQV
TALBKMKQEAQKAESEFIACVRDRTFGRRBTPPPTTPVVEGDBSQEEDEGGTPPVSQPSSPVDRATGDGQ

### Seq ID 78

MRYDPNLIEKKWQQFWKEHRSFQANEDEDKVKYYVLDMFPYPSGAGLHVGHLIGYTATDIVARYKRARGFSVLHPMGWDS
FGLPAEQYAIRTGTHPKVTTQKNIANFKKQLSAMGFSYDEGREFATSDPDYYHWTQKLFLFLYDQGLAYMADMAVNYCPE
LGTVLSNEEVENGFSIEGGYPVERKMLRQWILKITAYADKLLEGLDALDWPENVKQLQKNWIGKSEGALVTFHLTQEGSL
EAFTTRLDTLLGVSFLVIAPEHPDLDSIVSEEQRDEVTAYVQESLRKSERDRISSVKTKTGVFTGNYAKHPITGNILLPVW
ISDYVVLGYGTGVVMGVPAHDERDREFAEMFSLPIHEVIDDNGVCIHSNYNDFCLNGLSGQEAKDYVINYLEMRSLGRAK
TMYRLRDWLFSRQRYWGEPIPIIHFEDGTHRPLEDDELPLLPPNIDDYRPEGFGQGPLAKAQDWVHIYDEKTGRPGCRET
YTMPQWAGSCWYYLRFCDAHNSQLPWSKEKESYWMPVDLYIGGAEHAVLHLLYSRFWHRVFYDAGLVSTPEPFKKLINQG

KDMFLGTCDFLFDTYSALIPQVRAYFEKLYPKDSKTPASAYATSLRAKVLDCIRGLLPAATLTNLGFFGNGRFWQNLIHK LQGHNLAELRRLGDESLTELMKVIPSFVSRAEPHHHHQAMMQYRRALKEQLKGLAEQATFSEEMSSSPSVQLVYGDPDG IYKVAAGFLFPYSNRSLTDLIDYCKKMPHRDLVQILESSVSARENRRHKSPRGLECVEFGFDILADFGAYRDLQRHRTLT QERQLLSTHHGYNFPVELLDTPMEKSYREAMERANETYNEIVQEFPEEAQYMVPMAYNIRWFFHVNARALQWICELRSQP QGHQNYRTIATGLVREVVKFNPMYELFFKFVDYSDIDLGRLNQEMRKEPTT

Seq ID 91

RVMKAVVSHKSRTSSIHRQYSSYSLFYSILK

Seq ID 92

DGVNFGNLFQPCPYCRGKYPSPTCTSTLSPSSS

Seq ID 93

GLRRFCKRYSIVVSESGEPFCLLKKKKIFL

Sea ID 94

 ${\tt NFPICDRSSRFRGDCRDEDLCGRNRYBAFPDDKTEGHLCSCDTLALSKYCCLHSHGIWWIDSHASSPCCFCRIGGCFCNTPYGFLRIFLRRLPTESKIEYQ}$ 

Seq ID 95

FLPVLPGLLLGPPLPQMSFRL

Seq ID 96

 ${\tt FFIKYSLSNGYGIQKYLQTRLSAIPEWHFSGTNTSSKIKKLCEELSQNCSYHRSTGILGLRSS}$ 

Seg ID 97

CSYSVYSLWSLLQLLMLMKSEKKKSKFFNVSHHFQKVLRLSEDNMVQERFKESRSLAIVKKRMLTKIPE

Seq ID 98

AQAFGSLLLRML

Seq ID 99

ELLISYQRKTSSAIGKKNFTTSSQC

Seq ID 100

EGREDLPSALRKGSPTSGNSNFRSAAYCGSCC

Seq ID 101

RLRSTTNTSQSSPQWDCTHPIYLCDVPHGSGYV

Seq ID 102

APQARGDTKIRGYRNRTRAC

Sea ID 103

 ${\tt GRLLKQCMLSSLRKWLAILQLFLIAQEKLRTLRLQILLLPSTLVKSKQALYHVLSVLQNTIDSWKLKKSLDPKQFSQILM\ YFLTRLRNRGIFSISILSPNQEYIADLWALSF}$ 

Seq ID 104

STNPTVALASIFDAKTTKCP

Seq ID 105

TDILVKFIKNIFPPLWRGNVVPRSKNMTSIYTHANGNLIFQILNEVTQFFKVTPN

Seq ID 106

SSRCTQREIAGRRTVNTPKPKRCMGS

Seq ID 107

IDATQINLNASQVDIHIRNHSSSYWSARTCMRRRVSPSTWSFIYKGEVWSWGRFPVNAFQAPNIIPNRTCFYFCSTTPCR GCISTTRFFSIPRTVDYSSFKFHAEHQMIVISCGSRALFHCRFYASRP

Seq ID 108

ALLSRACVASIIPARKSASIAICLPGIASNRNRAATSATRSAPLVTTIN

Seq ID 109

NKVITGSWRVGACESMETRKPPKCLKKKVDREKAVNIETIKVTAEGKS

Seq ID 110

GISVMMLSRCLSSFSSTCRRARTLIFPRPVVYVBRIPSEPQIIPPVGKSGPGMTCKISSTEACGFASRRSVASISSPKL CGGIFVAIPTAIPEEPLQRRFGNLEGKTTGSCFVSS

Seq ID 111

SGRIISVMLSAPPCELHSDLIDPDLFEFNHRLNICISAEVRGRVTTHTFRGDSCNMSFNCSVRGNVITIPRIIRIEIRSL TSSFSIITKCKRISSRLRITNIIAYWSLRYVCLRIDIKTVRECSSIKLRTFRRHITLHNKFTWRSRGI

Seq ID 112

SDRNSFSISVSFSKYADFIAPLNWSLRTRRAFNPVEAALIRFSHSSRVRPEVTVPEIRNS

Seg ID 113

MPWIFYKLFNINIGVIKTGFGFCTCGRKRSIEFVLFFNNTNSSSPTSSNGFNNRETYFFSYF

Seq ID 114

 ${\tt ISMSSIETPSSPTTSIRLPISEPFSRNCAAFFTAPPQPETFSSKICPTWFKYFDQEIKGSIEGYLRASARAFERPQNAPTTANVD}$ 

Seq ID 115

GDLEHYKHIHGPFSKSSHHGKRHKRHNYLMFLQCRYKTLCGDQES

Seq ID 116

RVSFNASPPITTSRRDSKQEFCFFAVFRI

Seq ID 117

 ${\tt SINPLAPQRSLGPAIQYQLEEWPIQDTSISRDPKRLSSTNTSVSYRNASEIFSCNSSLSRTKNIPILDPKCAVFTIIGKE~NVSIRF}$ 

Seq ID 118

PLGPAPITTQSNSWVIFSLTVIKISKRTPLHKCMHLIKKRTLCLF

Seq ID 119

 $\tt GEQPFLFHPTSQQSLSLYHHYIGTLQSSFHHWKHPLQKIAFPQKIFQDQQVHRLPTSQRGKTDLDPRFL$ 

Seq ID 120

VTSKYASMRPSIPNPASHTRKIARAPTSRLTRFPYAGYISSKKYQGAPVSPQGRSEPSGNTMRFEESPGTHTRPPSPRTD SEINRSLSLPGIAVG